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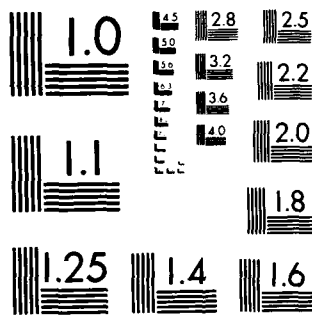
SUMMARY OF COMMODITY HANDLING TERMINALS ON UNITED  
STATES INLAND WATERWAYS (U) NAVIGATION DATA CENTER FORT  
BELVOIR VA OCT 88 NDC-88-P-1

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<p>This report groups the nations various inland waterway terminals by location and type of commodity handled. Included is general information denoting location, berthing length, indication of whether a terminal is receiving, shipping, or inactive facility, operating rates, and storage capacities. Information indicating throughput capacities of individual terminals is not available.</p>				
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U. S. ARMY  
CORPS OF ENGINEERS

SUMMARY OF COMMODITY HANDLING  
TERMINALS ON UNITED STATES  
INLAND WATERWAYS

PREPARED BY  
JOHN W. VETTER  
PORT FACILITIES

DTIC  
ELECTE  
MAR 23 1989  
S H D

NAVIGATION DATA CENTER  
WATER RESOURCES SUPPORT CENTER  
FORT BELVOIR, VIRGINIA 22060-5586

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# CONTENTS

SCOPE .....	1
SELECTED WATERWAYS .....	1
Alabama - Coosa Rivers .....	1
Allegheny River .....	1
Apalachicola-Chattahoochee-Flint Rivers .....	1
Arkansas River (McClellan-Kerr Arkansas River Navigation System) .....	1
Atchafalaya River .....	2
Atlantic Intracoastal Waterway .....	2
Black Warrior-Tombigbee-Mobile Rivers (Black Warrior River System) .....	2
Columbia River (Columbia-Snake Rivers Inland Waterways) .....	2
Cumberland River .....	2
Green and Barren Rivers .....	2
Gulf Intracoastal Waterway .....	3
Illinois Waterway .....	3
Kanawha River .....	3
Kaskaskia River .....	3
Kentucky River .....	3
Mississippi River .....	3
Lower Mississippi River .....	3
Middle Mississippi River .....	4
Upper Mississippi River .....	4
Missouri River .....	4
Monongahela River .....	4
Ohio River .....	4
Ouachita-Black Rivers .....	4
Pearl River .....	4
Red River .....	5
Tennessee River .....	5
Tennessee-Tombigbee Waterway .....	5
White River .....	5
Willamette River .....	5
COMMODITIES .....	5
SUMMARIES:	
Grain Handling-Terminals .....	6
Coal-Handling Terminals .....	7
Petroleum-Handling Terminals .....	8
Dry Bulk Material-Handling Terminals .....	9
Liquid Bulk-Handling Terminals .....	10
OTHER COMMODITIES .....	11
BIBLIOGRAPHY .....	12



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# SUMMARY OF COMMODITY HANDLING TERMINALS ON UNITED STATES INLAND WATERWAYS

## SCOPE:

This report groups the nations various inland waterway terminals by location and type of commodity handled. Included is general information denoting location, berthing length, indication of whether a terminal is a receiving, shipping, or inactive facility, operating rates, and storage capacities. Information indicating throughput capacities of individual terminals is not available.

## SELECTED WATERWAYS:

The waterways included in this report are those designated as subject to the inland waterways users' tax as defined within the scope of PL 95-502 - October 21, 1978 and PL 99-662 - October 17, 1986. Specific information is not readily available for a number of the waterways, therefore, these segments are not included. Data is available for tributary areas of various defined waterways, however, these areas are not included in this report as the law does not specifically provide for them.

The following tabulation describes the various waterways subject to the users' tax, gives excluded waterways and tributary areas, and indicates the specific Port Series Report/s covering each waterway.

1. Alabama - Coosa Rivers - Alabama River from junction with Tombigbee River (mile 0) to junction with Coosa River (mile 314.0).

There are no commercial facilities on the Alabama River above mile 296. Port Series No. 64 documents 25 facilities below this point.

2. Allegheny River - from confluence with Monongahela River (mile 0) to head of navigation at East Brady, Pennsylvania (mile 72).

There are no active commercial facilities above mile 50. Port Series No. 60 documents 41 facilities below this point.

3. Apalachicola-Chattahoochee-Flint Rivers - Apalachicola River from Gulf Intracoastal Waterway (mile 0) to junction with Chattahoochee and Flint Rivers (mile 107.8) and the latter two rivers from this point (mile 0) to Columbus, Georgia on the Chattahoochee River (mile 155) and to Bainbridge, Georgia on the Flint River (mile 28).

A total of 24 port facilities are described in Port Series No. 19 for the reaches indicated.

4. Arkansas River (McClellan-Kerr Arkansas River Navigation System) - Essentially the Arkansas and Verdigris Rivers from the Mississippi River (mile 0) to Catoosa, Oklahoma (mile 448.2).

Specifically excluded from this report are 18 facilities not physically located on the waterway: 13 on Lake Langhofer (Pine Bluff Harbor); 3 on Poteau River at Fort Smith; and 2 on San Bois Creek at Keota, Oklahoma. A total of 71 port facilities for the waterway and tributaries are included in Port Series Report No. 68.

5. Atchafalaya River - from junction with Gulf Intracoastal Waterway (mile 0) to junction with Red River (mile 116.8).

Presently, the entire river is not covered by any Port Series Report although Port Series No. 68 identifies a grain facility near the northerly end and a multi-purpose pier on a non-included tributary area known as "Lower Old River". It is known that sand, grain, petroleum handling, and multi-purpose facilities exist at Knotz Springs (mile 48) and that the southerly portion near Morgan City has a number of facilities of which practically all are engaged in servicing the offshore oil industry.

6. Atlantic Intracoastal Waterway - between Norfolk, Virginia (mile 0), and Miami, Florida (mile 1089), main route via Albemarle and Chesapeake Canal, and alternate route, via Great Dismal Swamp Canal and Okeechobee Waterway.

Commercial traffic on the waterway is relatively rare; less than 500,000 tons of cargo was reported in 1986 for the entire waterway. A few facilities being located adjacent to a deep-water port may be included in a Port Series Report, however, a complete listing of commercial facilities on the waterway is not available.

7. Black Warrior-Tombigbee-Mobile Rivers (Black Warrior River System) - Mobile River from Chickasaw Creek at Mobile (mile 2.9) to junction with Tombigbee River (mile 45); Tombigbee River to junction with Black Warrior River at Demopolis (mile 215.4); Black Warrior River to head of Navigation at Port Birmingham on Locust Fork (mile 407.8); and on Mulberry Fork to junction with Sipsey Fork (mile 429.6) including 0.9 mile of Sipsey Fork.

A total of 68 port facilities are described in Port Series No. 64 for the waterway system. Two facilities on the Tensaw River, a tributary stream, are not included in this report.

8. Columbia River (Columbia-Snake Rivers Inland Waterways): - The Columbia River from the Dalles Lock and Dam (mile 191.5) to Pasco, Washington (mile 330) and the Snake River from Pasco (mile 0) to Johnson Bar Landing, Idaho (mile 231.5).

The Snake River is not navigable for commercial craft above Lewiston, Idaho (mile 140). The port facilities at Lewiston, although physically located on the Clearwater River, are included in the report. Approximately 70 barge handling port facilities located on the Columbia River and tributaries below the Dalles Lock and Dam (mile 191.5) are excluded from the report as being outside the defined waterway. Port Series Report No. 33 documents 49 terminals along the waterway within the section defined.

9. Cumberland River - from the Ohio River (mile 0) to Cordell Hull Lock and Dam (mile 313.5).

Port Series Report No. 63 describes 34 facilities on the Cumberland River, 33 of which are located below mile 245. One wharf, however, is included although located at mile 359.

10. Green and Barren Rivers - Green River from Ohio River (mile 0) to mouth of Barren River (mile 149.1).

There are no commercial facilities above Rochester, Kentucky (mile 108). Port Series Report No. 63 describes 22 facilities below this point and they are included in this report.

11. Gulf Intracoastal Waterway - Inland Water Route paralleling the Gulf of Mexico shoreline from St. Marks River, Florida (mile 376.2E) to Brownsville, Texas (mile 681.8W).

Port facility descriptions for the waterway are not complete. Portions of the waterway containing commodity handling terminals are described in Port Series Reports Nos 19, 22, and 26, however, due to the incompleteness of available facility data, inclusion of the waterway has been postponed until publication of a future report.

12. Illinois Waterway - Illinois River from Mississippi River (mile 0) to junction with Des Plaines and Kankakee Rivers (mile 273); Des Plaines River to Lockport Lock (mile 291.1). The Chicago Sanitary and Ship Canal from Lockport to the South Branch Chicago River (mile 321.8) continuing up the North Branch Chicago River to mile 331, and along the main stem of the river from mile 325.5 to Lake Michigan (mile 327.5). The Calumet-Sag Channel from the Chicago Sanitary and Ship Canal (mile 303.5) to the Calumet River (mile 319.8); and the Calumet River from that point to Lake Michigan (mile 334).

Port Series Report No. 65 describes all the port facilities located below the Lockport Lock and Port Series Report No. 46 describes the remainder. For the purpose of this report, only barge handling facilities at the deep draft (Port of Chicago) wharves were considered.

13. Kanawha River - from the Ohio River (mile 0) to Deepwater, West Virginia (mile 90.6).

Seventy-eight facilities on the river are described in Port Series Report No. 61 and are included in this report. Five facilities on the Elk River at Charleston and one on the Poca River are excluded from the report as they are not located on the Kanawha River as defined by PL 95-502.

14. Kaskaskia River - from Mississippi River (mile 0) to Fayetteville, Illinois (mile 36.2).

One facility located at mile 24 is described in Port Series No. 70 for the river. Two additional terminals reportedly have been built since publication of the Port Series. All data available for the 3 terminals is included in the report.

15. Kentucky River - from Ohio River (mile 0) to junction of Middle and North Forks (mile 258.8).

Port Series Report No. 62 documents five commercial facilities on the river, of which only two are active: one at Frankfort (mile 65) and one at Carrollton near the mouth.

16. Mississippi River

a. Lower Mississippi River - From Baton Rouge, Louisiana (mile 233.8) to the mouth of the Ohio River at Cairo, Illinois (mile 953.8).

Specifically excluded from this report are facilities that are not physically located on the Mississippi River: 30 at Vicksburg including Yazoo River Diversion Canal; 5 on Lake Providence; 27 on Lake Ferguson (Greenville Harbor); 3 at Rosedale Harbor; 37 on McKellar



Lake (Memphis Harbor); 11 on Wolf River at Memphis. A total of 229 port facilities for the waterways and tributaries are described in Port Series Reports Nos. 71 and 72.

b. Middle Mississippi River - from mouth of Ohio River at Cairo, Illinois (mile 0) to mouth of the Missouri River above St. Louis (mile 195.4).

Port Series Report No. 70 documents 130 facilities along the described waterway. Terminals along the Chain of Rocks Canal are included since the canal forms part of the river navigation route.

c. Upper Mississippi River - from mouth of Missouri River (mile 195.4) to Minneapolis, Minnesota (mile 857.6).

Specifically excluded from this report are facilities not physically located on the Mississippi River: 10 on Black River at LaCrosse, Wisconsin; 3 on St. Croix River at Stillwater, Minnesota; and 11 on Minnesota River at Savage, Minnesota. A total of 290 port facilities are described for the river and tributaries in Port Series Reports Nos. 70 and 69.

17. Missouri River - from junction with Mississippi River (mile 0) to Sioux City, Iowa (mile 734.8).

One hundred and six port facilities as documented in Port Series Report No. 68 are described as being physically located on the Missouri River. Two facilities located on tributaries (the Osage and Grand Rivers) are excluded from this report.

18. Monongahela River - from Ohio River at Pittsburgh (mile 0) to junction of Tygart and West Fork Rivers at Fairmont, West Virginia (mile 128.7).

Port Series Report No. 60 documents 146 port facilities along the Monongahela River and 2 on the Cheat River, an excluded tributary.

19. Ohio River - from Mississippi River at Cairo, Illinois (mile 981.5) to the confluence of the Allegheny and Monongahela Rivers at Pittsburgh (mile 0).

Specifically excluded from this report are facilities on tributary ~~water~~ Licking River; 13 on Big Sandy River; and 2 on Little Kanawha River. A total of 548 port facilities are physically located on the Ohio River and each is documented in Port Series Report Nos. 63, 62, 61, or 60, as well as those located on the excluded waterways.

20. Ouachita-Black Rivers - Black River from its junction with the Red River (mile 0) to its junction with the Ouachita River at Jonesville, Louisiana (mile 41.1) and the Ouachita River to the head of navigation at Camden, Arkansas (mile 331).

Port Series Report No. 68 describes 16 wharf facilities for the rivers, only 3 of which are more than minimally active in commodity handling.

21. Pearl River - from junction of West Pearl River with The Rigolets (mile 0) to Bogalusa, Louisiana (mile 58).

Port Series Report No. 19 describes 6 facilities on Port Bienville Industrial Canal, a tributary waterway. The only terminal situated on the river is a National Aeronautics and Space Administration Slip located near Gainesville, Louisiana (mile 14).

22. Red River - Red River and Lower Old River Channel from Mississippi River at Old River Control Structure (mile 0) to Cypress Bayou at Shreveport, Louisiana (mile 236).

One facility on the Old River is documented in Port Series Report No. 68. No other commodity handling terminals are located on the Red River.

23. Tennessee River - from junction with Ohio River at Paducah, Kentucky (mile 0) to the confluence of the Holston and French Broad Rivers east of Knoxville, Tennessee (mile 652.3).

Specifically excluded from this report are facilities located on tributary waters: 19 at Gunterville Harbor (Big Spring Creek and Polecat Branch); 6 on Hiwassee River at Charleston, Tennessee; 3 on Emory River at Harriman, Tennessee; 4 on Clinch River between Kingston and Clinton, Tennessee; 2 on French Broad River east of Knoxville, Tennessee and one each on the Elk River, Soddy Creek, Piney Creek/Wolf Creek Waterway, Kings Creek, and Little Tennessee River. Ports Series Report No. 64 documents 154 facilities on the Tennessee River and 34 on the tributaries, approximately two-thirds of which can be considered as active commodity handling terminals.

24. Tennessee-Tombigbee Waterway - from the Tennessee River at Yellow Creek (mile 450.7) to the junction of the Tombigbee and Black Warrior Rivers at Demopolis, Alabama (mile 217).

Port Series Report No. 64 documents 20 port facilities along the waterway, 19 of which handle commodities.

25. White River - from the Arkansas Post Canal (mile 9.8) to Newport, Arkansas (mile 255).

Port Series Report No. 68 documents 13 facilities for the river 12 of which are commodity handling terminals. All are included in this report.

26. Willamette River - from Portland, Oregon (mile 21) to Harrisburg, Oregon (mile 194).

Port Series Report No. 34 includes one facility above mile 21; another wharf located near mile 39 is not included in the Port Series. Above that point the only commercial activity amounts to handling log rafts. The Willamette River is not included in this report.

#### COMMODITIES:

Five commodity types, those represented by the majority of inland waterway commerce, have been selected viz: grain, coal, petroleum, dry bulk materials other than coal, and liquid bulk materials other than petroleum. The data presented is taken from the Corps of Engineers Port Series Reports. The heading "Ref. No." indicates an individual facility designation in one of the 14 Port Series Reports used. The specific report used for a waterway segment is given with the defined waterway tabulation beginning on page 1. The complete list of the 14 Port Series Report covering the inland waterway system (revised 1982-1987) is given in the bibliography on page 12.



## GRAIN HANDLING TERMINALS

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Transfer rates between barge and truck or rail are given when available, facilities are arranged according to on-site storage capacity. Mode of service to elevator (rail or truck) is indicated and in some cases the size of barge holding areas at or near the terminal is given.

Facilities are subdivided into two categories, generally based upon size of storage capacity. Major Facilities generally are those having greater than 500,000 bushel storage capacity and rapid loading rates, however, this may vary slightly depending upon relativity on a particular waterway. Minor Facilities generally are those having less than 500,000 bushel on site storage capacity and/or have only a cyclical operation. The sizes of the barge holding areas shown may be mutually inclusive.

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: ALABAMA RIVER

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck Rail	Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
<u>MAJOR FACILITIES</u>						
114	650	7,000		594,000		R/T
Ave.	650	7,000		594,000		
Tot.	650			594,000		
<u>MINOR FACILITIES</u>						
99	300	6,600		427,600		T
109	325	7,000		302,000		T
Ave.	313	6,800		364,800		
Tot.	625			729,600		
<u>ALL FACILITIES</u>						
Ave.	425	6,867		441,200		
Tot.	1,275			1,323,600		

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: APALACHICOLA, CHATTAHOOCHEE AND FLINT RIVERS

Ref. No.	Berth Length	Loading Rate (Bu/Hr)		Unloading Rate (Bu/Hr)		Total Storage Capacity (Bu)	Holding Fleet @	Elev. Svc. (R/T)
		To Barge from Storage	Truck Rail	From Barge to Storage	Tr/Rail	Flat & Elev.	Dock Near	
<u>MINOR FACILITIES</u>								
18	516	10,000				572,000		R, T
4	300	6,000				550,000		T
23	586	10,000				426,000	6	R, T
10	900		2,000					T
Ave.	576	8,667	2,000			516,000		
Tot.	2,302					1,548,000		
<u>ALL FACILITIES</u>								
Ave.	576	8,667	2,000			516,000		
Tot.	2,302					1,548,000		

Date: 10/06/88

## SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR -  
ARKANSAS RIVER NAVIGATION SYSTEM)

Ref. No.	Berth Length	Loading Rate (Bu/Hr)		Unloading Rate (Bu/Hr)		Total Storage Capacity (Bu)	Holding Fleet @	Elev. Svc. (R/T)
		To Barge from Storage Truck	Rail	From Barge to Storage Tr/Rail		Flat & Elev.	Dock Near	

MAJOR FACILITIES

94	195	25,000				4,998,000		R/T
31	400	15,000				4,200,000		T
18	320	15,000				2,033,000		T
82	320	12,000				1,000,000		T
73	240	7,000		1,200		1,000,000		T
61	275	25,000		6,000		850,000		T
38	200	10,000				800,000		T
50	640	3,500		3,500		650,000		R/T
15	680	17,000				592,000		T
48	290	12,000			5,000	500,000	6	T
33	830	10,000	10,000					R/T
78	150	15,000	15,000					R/T
14	540	16,000						T
Ave.	391	14,150	13,667	12,500	3,567	5,000	1,662,300	
Tot.	5,080						16,623,000	

MINOR FACILITIES

84	400	25,000				400,000		T
59	380					4,000		T
90	190	12,000						T
91	400	12,000						T
Ave.	343	25,000	12,000				202,000	
Tot.	1,370						404,000	

ALL FACILITIES

Ave.	379	15,136	13,000	12,500	3,567	5,000	1,418,917	
Tot.	6,450						17,027,000	

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
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MAJOR FACILITIES

53	600	10,000			572,150	4	T
Ave.	600	10,000			572,150		
Tot.	600				572,150		

MINOR FACILITIES

23	498	10,000			362,300		R, T
Ave.	498	10,000			362,300		
Tot.	498				362,300		

ALL FACILITIES

Ave.	549	10,000			467,225		
Tot.	1,098				934,450		

Date: 10/06/88

## SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

## WATERWAY: COLUMBIA-SNAKE RIVER SYSTEM

Ref. Berth No.	Berth Length	Loading Rate (Bu/Hr)		Unloading Rate (Bu/Hr)		Total Storage Capacity (Bu)	Total Outside Storage (bushels)	Elev. Svc. (R/T)
		To Barge	from Storage Truck	From Barge	to Storage Tr/Rail	Flat & Elev.		
<b>MAJOR FACILITIES</b>								
153	350	30,000				5,256,200	3,000,000	T
121	500	20,000				5,200,000	250,000	R, T
146	295	30,000				4,100,000		T
115	200	25,000				3,305,000		T
113	500	18,000				3,000,000		R, T
129	400	15,000				2,600,000		R, T
137	300	25,000				2,400,000	1,000,000	T
138	500	25,000				2,146,000		T
104	255	12,000				1,785,000		T
111	300	10,000				1,649,000	2,750,000	T
140	350	15,000				1,500,000		T
139	200	17,000				1,480,000	4,000,000	T
116	200	20,000				1,244,000	3,000,000	T
136	300	16,000				1,200,000	3,100,000	T
106	280	17,000				1,027,000		R, T
110	250	30,000				800,000		T
105	180	10,000				750,000		T
128	550	28,000				665,000	665,000	T
149	300	30,000				580,000		T
152	350	30,000				500,000	500,000	R, T
Ave.	328	21,150				2,059,360		
Tot.	6,560					41,187,200	18,265,000	
<b>MINOR FACILITIES</b>								
134	210	25,000				490,000	2,300,000	T
124	228	15,000				450,000		R, T
141	204	38,000				357,000	350,000	T
135	300	30,000				320,000		T
Ave.	236	27,000				404,250		
Tot.	942					1,617,000	2,650,000	
<b>ALL FACILITIES</b>								
Ave.	313	22,125				1,783,508		
Tot.	7,502					42,804,200		



Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: CUMBERLAND RIVER

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck	Rail	Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
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MAJOR FACILITIES

47	1,570	15,000	15,000		1,000,000		T
46	400	6,000			450,000		T
Ave.	985	10,500	15,000		725,000		
Tot.	1,970				1,450,000		

MINOR FACILITIES

45	800	15,000			54,000		T
Ave.	800	15,000			54,000		
Tot.	800				54,000		

ALL FACILITIES

Ave.	923	12,000	15,000		501,333		
Tot.	2,770				1,504,000		

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: GREEN RIVER

Ref. Berth No.	Length	Loading Rate (Bu/Hr) To Barge from Storage Truck Rail		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail		Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
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MAJOR FACILITIES

72	900	20,000				2,690,000		R,T
Ave.	900	20,000				2,690,000		
Tot.	900					2,690,000		

MINOR FACILITIES

69	350	32,500	32,500			70,000		T
Ave.	350	32,500	32,500			70,000		
Tot.	350					70,000		

ALL FACILITIES

Ave.	625	26,250	32,500			1,380,000		
Tot.	1,250					2,760,000		

Date: 10/17/88

## SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY, (INCLUDING BARGE FACILITIES  
AT THE PORT OF CHICAGO)

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
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MINOR FACILITIES

100	800	10,000			370,000		R, T
28	425	20,000			360,000	170	R, T
147	275	8,500			315,000		T
6	590	20,000			300,000	350	T
89	195	20,000			270,000	97	T
93	650	14,000			250,000	100	T
20	500	20,000			225,000	130	T
41	415	20,000			200,000	55	T
91	400	15,000			200,000	97	T
123	310	15,000			198,900	55	T
39	435	21,000			190,000	55	T
13	300	18,000			180,000	110	T
12	400	15,000			132,000	110	T
120	670	22,000			120,000	55	T
18	700	22,000			115,000	130	T
77	365	12,000			115,000	33	T
88	400	20,000			110,000	97	T
45	250	25,000			110,000	190	T
116	280	15,000			100,000	118	T
51	200	23,000			100,000	67	T
115	200	35,000			100,000	118	T
25	460	18,000			84,000	170	R, T
107	300		40,000	40,000	80,000	12	R, T
131	800	18,000			60,000	30	T
104	580	18,000	14,000		60,000	67	T
122	320	10,000			50,000	55	T
37	1,400	20,000			42,000	130	R, T
54	1,755		50,000			100	T
92	875		36,000	36,000		100	-
103	400		12,000			67	-
109	400		14,000			12	-
56	400		10,000			100	-
112	1,400			18,000			-
Ave.	541	18,250	25,143	31,333	164,330		
Tot.	17,850				4,436,900		

ALL FACILITIES

Ave.	602	23,670	30,667	27,250	18,200	1,382,957	
Tot.	33,739					67,764,900	

Date: 10/07/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: KASKASKIA RIVER

Ref. Berth No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck Rail		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
<hr/>							
<u>MINOR FACILITIES</u>							
0	195	9,000			265,000		T
Ave.	195	9,000			265,000		
Tot.	195				265,000		
<hr/>							
<u>ALL FACILITIES</u>							
Ave.	195	9,000			265,000		
Tot.	195				265,000		

Date: 10/17/88

## SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

Ref. No.	Berth Length	Loading Rate (Bu/Hr)		Unloading Rate (Bu/Hr)		Total Storage Capacity (Bu)	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
		To Barge from Storage Truck	Rail	From Barge to Storage	Tr/Rail	Flat & Elev.		
<u>MAJOR FACILITIES</u>								
124	730	1,800				7,000,000		R/T
51	450	10,000		10,000		6,000,000		R/T
111	540	5,000		10,000		5,000,000		R/T
75	176	15,000	21,000			4,800,000		R/T
21	600	8,000				4,800,000		R/T
20	415	15,000		6,000		3,600,000		T
104	500	40,000				3,120,000		f
112	650	25,000				2,800,000		T
93	540	18,000				2,700,000		T
20	250	17,000		9,000		2,500,000		R/T
91	470	10,000		6,000		2,315,000		R/T
60	590	30,000				2,100,000		T
101	666	15,000				2,000,000		T
59	530	15,000				1,846,000		T
69	180	9,000				1,750,000		R/T
47	225	25,000				1,600,000		R/T
14	240	30,000		7,000		1,500,000		T
63	350	12,000		5,500		1,400,000		T
32	240	8,000		11,000		1,325,000		R/T
100	170	15,000				1,300,000		T
3	540	15,000	13,500			1,285,000		T
55	420	15,000				1,208,000		T
101	100	10,000				1,200,000		T
57	250	15,000		5,000		1,200,000		T
65	380	15,000				1,040,000		T
66	650	12,000				1,000,000		T
34	195	10,000				1,000,000		R/T
85	360	18,000				935,000		T
97	425	20,000				900,000		T
58	200	15,000				900,000		T
26	190	10,000		4,000		750,000		T
50	200	50,000				750,000		R/T
64	540	15,000				750,000		T
19	185	20,000				590,000		T
66	300	10,000				560,000		T
56	260	35,000				550,000		T
80	250	18,000				544,000		T
Ave.	377	16,941	13,500	21,000	7,350	2,016,703		
Tot.	13,957					74,618,000		

Date: 10/17/88

## SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck	Rail	Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
<u>MINOR FACILITIES</u>							
68	195	4,000			780,000		T
87	460	18,000			740,000		T
120	240	6,500			720,000		R/T
95	360	10,000			490,000		T
103	265	20,000			386,000		T
106	290	10,000			320,000		T
61	195	22,000			280,000		T
35	130			1,000	250,000		R/T
58	180	15,000			200,000		T
57	250	15,000			127,000	24	T
49	142		3,000		110,000		R/T
117	300	7,000			110,000		R
29	250	1,670			61,000		R/T
109	540	11,000			50,000		T
95	780	15,000					T
118	358	5,250					T
116	314		20,000				T
Ave.	309	11,459	11,500	1,000	330,286		
Tot.	5,249				4,624,000		

ALL FACILITIES

Ave.	356	15,436	12,167	21,000	6,773	1,553,765
Tot.	19,206					79,242,000

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO TO MISSOURI RIVER)

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
<hr/>							
<u>MAJOR FACILITIES</u>							
19	700	20,000			5,000,000		R/T
125	1,400	18,000			4,000,000		R/T
26	900	30,000	4,500		2,500,000		R/T
85	1,850	27,000		5,000	2,235,000		R/T
168	345	10,000			1,500,000		T
6	175	12,000			1,100,000		R/T
Ave.	895	19,500	4,500	5,000	2,722,500		
Tot.	5,370				16,335,000		
<hr/>							
<u>MINOR FACILITIES</u>							
169	370	7,000			963,000		T
9	200	8,000			580,000		T
1	175	5,500			574,000		T
163	250	6,200			450,000		T
170	315	15,000			146,000		T
22	1,000	25,000					T
88	875		6,000				R
Ave.	455	11,117	6,000		542,600		
Tot.	3,185				2,713,000		
<hr/>							
<u>ALL FACILITIES</u>							
Ave.	658	15,308	5,250	5,000	1,731,636		
Tot.	8,555				19,048,000		

Date: 10/17/88

## SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO  
MINNEAPOLIS)

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
<u>MAJOR FACILITIES</u>							
79	570	24,000			5,300,000		R/T
22	400	25,000			5,000,000		R/T
101	650	15,000			5,000,000		R/T
9	260	20,000			2,800,000		T
66	1,000	10,000			2,500,000		R/T
241	180	10,000			2,500,000		T
1	600	20,000			2,300,000		T
86	400	25,000			2,000,000		R/T
141	3,500	25,000			2,000,000		T/R
7	600	19,000			1,850,000		T
58	390	17,000		18,000	1,800,000		R/T
13	1,000	25,000			1,590,000		T
75	585	18,000			1,465,000		R/T
158	780	30,000			1,250,000		R/T
216	950	28,000	20,000		1,232,000		R/T
245	525	25,000			1,200,000		T
213	750	16,000			1,100,000		R/T
251	420	9,500			1,000,000		R/T
228	500	15,000			1,000,000		R/T
223	1,000	28,000			860,000		T
209	430	25,000			850,000		R/T
202	590	40,000			750,000		R/T
8	400	32,500			723,000		T
143	300	25,000			650,000		R/T
38	400	35,000			650,000		T
23	1,200	40,000			535,000		R/T
60	750		7,000				R
Ave.	709	23,154	13,500	18,000	1,842,500		
Tot.	19,130				47,905,000		



Date: 10/17/88

## SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO  
MINNEAPOLIS)

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck	Rail	Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
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MINOR FACILITIES

14	300	5,000			510,000		T
225	400	22,000			412,000		T
15	1,365	27,500			350,000		T
149	300	30,000			350,000		T
204	1,500	25,000			350,000		R/T
27	600	60,000			324,000		R/T
147	400	35,000			300,000		R/T
96	400	20,000	20,000	40,000	300,000		R/T
159	780	20,000			300,000		T
167	900	25,000			300,000		R/T
12	525	18,000			280,000		T
181	650	22,000			250,000		T
62	932	60,000	5,400	24,000	240,000		R/T
231	200	30,000			230,000		T
70	500	15,000			200,000		T
236	550	15,000			200,000		R/T
198	400	8,000			150,000		T
11	435	18,000			140,000		T
16	600	15,000	4,550		130,000		T
165	254	30,000			54,000		T
128	1,400		15,000	15,000			R
179	450		10,000	10,000			R/T
32	1,100		15,000				T
184	200			10,000			R
233	300		40,000				T
235	195		14,000				T
148	300		12,000				T
132	1,600		20,000	20,000			R/T
5	700		25,000				T
92	200		10,000				T
161	600			15,000			R
Ave.	614	25,025	15,913	19,143	268,500		
Tot.	19,036				5,370,000		

ALL FACILITIES

Ave.	658	23,967	15,913	17,889	18,000	1,158,152	
Tot.	38,166					53,275,000	

## SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

## WATERWAY: MISSOURI RIVER

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
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MAJOR FACILITIES

52	600	30,000			10,000,000		R/T
54	900	19,000			10,000,000		R/T
43	850	20,000			4,300,000		R/T
67	190	20,000			3,944,000		R/T
85	700	14,000			1,600,000		R/T
58	250	14,000			1,593,000	1600	R/T
22	200	7,000			1,500,000		R/T
28	600	20,000			1,380,000		R/T
76	200	5,000			1,024,000		R/T
29	195	5,000			1,000,000	130	R/T
74	550	10,000			956,000		R/T
62	175	18,000			950,000		R/T
44	430	18,000			900,000		R/T
73	280	6,000			842,000		R/T
69	195	5,000			800,000		T
26	195	4,500			741,000		T
Ave.	407	13,469			2,595,625		
Tot.	6,510				41,530,000		

MINOR FACILITIES

78	110				854,000		T
32	180	4,000			450,000		R/T
72	195	13,000			357,000		R/T
80	825	11,000			250,000		T
106	900	8,000	8,000		200,000		R/T
19	300		5,000				T
102	200		5,000				T
89	150		3,600				T
Ave.	358	9,000	5,400		422,200		
Tot.	2,860				2,111,000		

ALL FACILITIES

Ave.	390	12,575	5,400		2,078,143		
Tot.	9,370				43,641,000		

Date: 10/06/88

## SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
<b>MAJOR FACILITIES</b>							
241	737			30,000	4,000,000		R, T
226	380	40,000			3,600,000		R, T
62	250	30,000			3,500,000		T
208	740	67,000			2,600,000		R, T
124	525	20,000			2,000,000		R, T
197	260	25,000			1,800,000		R, T
218	260	25,000			1,800,000		R, T
133	150	15,000			1,400,000		R, T
	400	20,000			1,300,000		R, T
215	360			2,500	1,200,000		T
58	130	12,000			1,000,000		T
199	180	30,000			900,000		R, T
111	250	20,000			520,000		T
152	600		33,000				R
Ave.	373	27,636	33,000	16,250	1,970,769		
Tot.	5,222				25,620,000		

<b>MINOR FACILITIES</b>							
55	200		9,000		1,250,000		T
203	175	15,000			350,000		T
142	175	15,000			320,000		R, T
30	560	35,000			300,000		T
191	100	11,000			260,000		T
97	150	12,000			240,000		R, T
94	325	10,000			210,000		T
121	350	20,000			160,000		T
144	300	10,000			150,000		T
154	100	16,700			150,000		T
238	442	50,000	50,000	50,000	120,000		R, T
237	380	35,000			115,000		R, T
162	190	20,000			100,000		T
94	150		7,100		44,000		T
119	195	6,600	6,600		30,000		T
74	425						T
231	200		18,000				T
Ave.	260	19,715	18,140	50,000	253,267		
Tot.	4,417				3,799,000		

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck Rail		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail		Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
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ALL FACILITIES

Ave.	311	23,346	18,140	41,500	16,250		1,050,679	
Tot.	9,639						29,419,000	

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: OUACHITA - BLACK RIVERS

Ref. Berth	Length	Loading Rate (Bu/Hr) To Barge from Storage Truck	Rail	Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
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MAJOR FACILITIES

4	390	33,000			3,000,000		T
3	675	20,000			2,000,000		T
Ave.	533	26,500			2,500,000		
Tot.	1,065				5,000,000		

ALL FACILITIES

Ave.	533	26,500			2,500,000		
Tot.	1,065				5,000,000		

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: WHITE RIVER

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck    Rail	Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail	Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
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MAJOR FACILITIES

1	400	10,000		3,000,000		T
11	285	20,000		2,200,000		T
6	380	15,000		2,100,000		T
5	210	28,000		1,600,000		T
12	390	8,000		1,500,000		T
8	200	16,000		1,400,000		T
9	335	20,000		1,020,000		T
Ave.	314	16,714		1,831,429		
Tot.	2,200			12,820,000		

ALL FACILITIES

Ave.	314	16,714		1,831,429		
Tot.	2,200			12,820,000		

Date: 10/06/88

## SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: TENNESSEE RIVER

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck Rail		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail		Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
<hr/>								
MAJOR FACILITIES								
99	575	15,000		15,000		7,600,000		R, T
114	195			10,000		3,000,000		R, T
159	1,100	8,000		8,000		2,147,000		R, T
158	512			8,000		2,000,000		R, T
101	250	8,000		8,000		1,800,000		R, T
19	195	12,000				1,700,000		T
53	530	15,000				1,500,000		R, T
116	380			7,000		1,000,000		R, T
24	195	10,000	10,000			600,000		T
112	610	5,000		1,000		550,000		R, T
44	480	22,000				500,000		T
90	350			6,000		400,000		R, T
Ave.	448	11,875	10,000	7,875		1,899,750		
Tot.	5,372					22,797,000		
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MINOR FACILITIES								
98	300	10,000		9,000		400,000		R, T
156	400			10,000		355,000		R, T
68	195	8,000				290,000		T
108	290	7,000		7,000		220,000		R
121	580			3,500		130,000		R, T
113	275		4,000		4,000	110,000		T
189	688			2,000		100,000		R, T
142	490		1,000					T
14	200		20,000					T
81	1,385		1,100					T
148	195				10,000			T
87	530	20,000						R, T
Ave.	461	11,250	6,525	6,300	7,000	229,286		
Tot.	5,528					1,605,000		
<hr/>								
ALL FACILITIES								
Ave.	454	11,667	7,220	7,269	7,000	1,284,316		
Tot.	10,900					24,402,000		

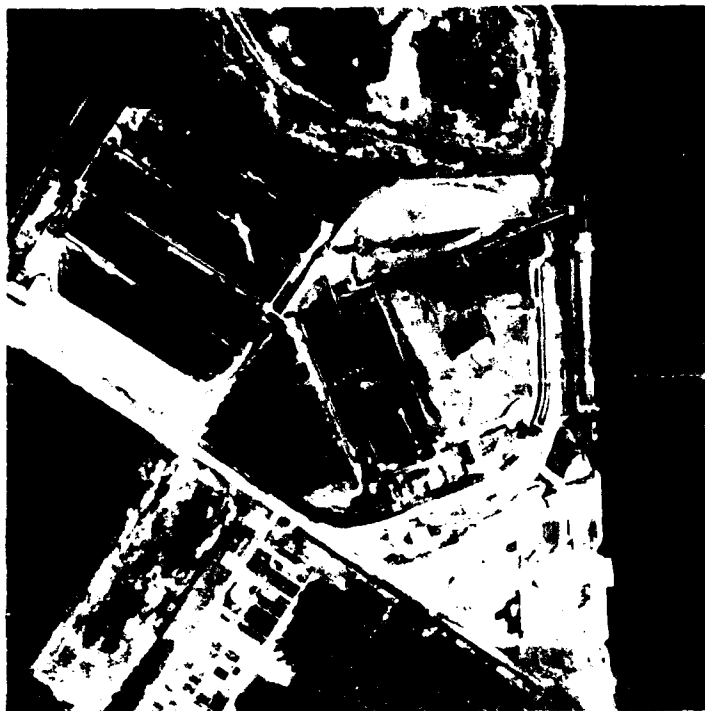
Date: 10/17/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: TENNESSEE-TOMBIGBEE WATERWAY

Ref. No.	Berth Length	Loading Rate (Bu/Hr) To Barge from Storage Truck		Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail		Total Storage Capacity (Bu) Flat & Elev.	Holding Fleet @ Dock Near	Elev. Svc. (R/T)
-----								
MAJOR FACILITIES								
21	200	5,000				1,000,000	117	T
14	500	10,000		3,000		730,000		T
10	400	15,000				507,000		T
Ave.	367	10,000		3,000		745,667		
Tot.	1,100					2,237,000		
-----								
MINOR FACILITIES								
15	385	16,000		3,500	3,500	325,000		R, T
16	200	10,000				135,000		T
3	1,000		3,500					R
Ave.	528	13,000	3500	3,500	3,500	230,000		
Tot.	1,585					460,000		
-----								
ALL FACILITIES								
Ave.	448	11,200	3,500	3,250	3,500	539,400		
Tot.	2,685					2,697,000		





## COAL HANDLING TERMINALS

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Transfer rates between barge and truck, rail and/or storage areas are given when available. Facilities are arranged according to on-site open storage area and grouped according to extent of operation. In some instances, the total open storage areas indicated are not necessarily available for coal storage at any given time. Facilities are subdivided into 3 categories generally based upon storage capacities. Major Facilities handle coal or coke exclusively or as a major commodity usually associated with power plant, mine or heavy industrial usage. Minor Facilities handle lesser amounts of coal and usually with slower rates. Sporadic Facilities are identified as those where coal is not necessarily the major commodity handled nor is there any specific area dedicated to coal storage. Also, smaller facilities operating on a non-regular, intermittent basis usually fall into this category.

Date: 10/17/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: ALLEGHENY RIVER

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)		Remrks
		To Barge	from Storage Truck	From Barge	to Storage Truck	Open	Covered	
<u>MAJOR FACILITIES</u>								
237	2,450			1,500		322,000		
233	1,095			150		410,000		
Avg.	1,773			825		366,000		
Tot.	3,545					732,000		
-----								
<u>MINOR FACILITIES</u>								
227	400					100,000		
229	350	800				500,000		
Avg.	375	800				300,000		
Tot.	750					600,000		
-----								
<u>SPORADIC FACILITIES</u>								
212	1,000							I
216	835					300,000		
220	350	200	200			20,000		
231	195		200					5 Acre
Avg.	595	200	200			160,000		
Tot.	2,380					320,000		
-----								
<u>ALL FACILITIES</u>								
Avg.	834	500	200	825		275,333		
Tot.	6,675					1,652,000		

Date: 10/11/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR-ARKANSAS RIVER  
NAVIGATION SYSTEM)

Ref. Berth No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Barge	from Storage Truck	From Barge to Storage Truck	Rail	Open	Covered	

MINOR FACILITIES

70	400	700				6,000	
91	400		400				
71	300	300	300			4,500	I
74	200			250			
86	200	250				20,000	
90	190		400				
Avg.	282	417	367	250		10,167	
Tot.	1,690					30,500	

SPORADIC FACILITIES

67	1,400						
80	340						
65	250						
Avg.	663						
Tot.	1,990						

ALL FACILITIES

Avg.	409	417	367	250		10,167	
Tot.	3,680					30,500	

Date: 10/13/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)		Remrks
		To Barge	from Storage Truck	From Barge	to Storage Truck	Open	Covered	

MAJOR FACILITIES

50	2,600	2,200		1,200		1,000,000	
42	2,000			1,900		1,300,000	2 unl
81	1,800	870				600,000	
35	780			400		500,000	
63	660	1,000				200,000	
82	420	1,000				1,000,000	
83	420	1,200					use 82
78	400	1,150				150,000	
80	400	1,550				150,000	
65	300	1,500				54,000	
62	225	2,000				30,000	
61	200	1,000				20,000	
64	200	1,000				2,000	
Avg.	800	1,315		1,167		417,167	
Tot.	10,405					5,006,000	

MINOR FACILITIES

88	1,000	800		500		150,000	
73	800	2,200		600		200,000	
90	600	1,200				100,000	
74	400		1,000				use 73
76	400	2,200	1,150			50,000	
52	200	500				40,000	
87	200	1,000				150,000	
Avg.	514	1,317	1,075	600	500	115,000	
Tot.	3,600					690,000	

ALL FACILITIES

Avg.	700	1,316	1,075	600	1,000	316,444	
Tot.	14,005					5,696,000	

Date: 10/12/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: CUMBERLAND RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)			Remrks
		To Storage	Barge from Truck	From Storage	Barge to Truck Rail	Open	Covered		
<u>MINOR FACILITIES</u>									
15	5,000	2,200		4,000		3,000,000			5 Acres
47	1,570	1,500							
32	110	110				2,000,000			
Avg.	2,227	1,270		4,000		2,500,000			
Tot.	6,680					5,000,000			

<u>ALL FACILITIES</u>								
Avg.	2,227	1,270		4,000		2,500,000		
Tot.	6,680					5,000,000		

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: GREEN RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr) To Barge from Storage Truck		Unloading rate (Bu/Hr) From Barge to Storage Truck Rail		Total Storage Capy (tons) Open Covered		Remrks
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MAJOR FACILITIES

77	3,384			4,000		2,000,000		
68	2,625			800		400,000		
75	1,600		1,800					Mine
76	1,400	1,100				30,000		
86	1,365			2,000		750,000		
67	875			1,600		400,000		
79	575	3,000				80,000		
71	270	3,000				100,000		
Avg.	1,512	2,367	1,800	2,100		537,143		
Tot.	12,094					3,760,000		

MINOR FACILITIES

66	1,440			300		51,000		
80	600	1,200				50,000		
83	500	800				24,000		
69	350		500					
84	300	3,000				30,000		
82	240		700					
74	200					150,000		I
73	195	750				25,000		
81	195							I
70	175	2,100				60,000		
Avg.	420	1,570	600	300		55,714		
Tot.	4,195					390,000		

SPORADIC FACILITIES

78	300					15,000		I
Avg.	300					15,000		
Tot.	300					15,000		

ALL FACILITIES

Avg.	873	1,869	600	1,800	1,740	277,667		
Tot.	16,589					4,165,000		

Date: 10/12/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: GULF INTRACOASTAL WATERWAY (EAST END to MILE 5W)

Ref. Berth No.	Length (ft)	Loading rate (Bu/Hr) To Barge from Storage Truck Rail		Unloading rate (Bu/Hr) From Barge to Storage Truck Rail		Total Storage Capy (tons) Open Covered		Remrks
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MINOR FACILITIES

51	2,235	2,000		1,200		30,000		
42	840			3,000		38,000		
45	324							600
Avg.	1,133	2,000		2,100		34,000		600
Tot.	3,399					68,000		600

ALL FACILITIES

Avg.	1,133	2,000		2,100		34,000		600
Tot.	3,399					68,000		600

Date: 10/12/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY (Including barge facilities at the port of Chicago)									
Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks	
		To Barge from Storage	Truck	From Barge to Storage	Truck Rail	Open	Covered		
<b><u>MAJOR FACILITIES</u></b>									
181	2,865			200				20Acre	
117	2,840			1,200		1,000,000			
16	2,050			500		120,000			
22	1,560	1,500		3,000		150,000		3 Acre	
54	1,422			1,200		990,000			
71	1,270		750			25,000		coke	
116	1,225		725					coke	
142	1,200			700				Inactv	
48	1,110			400		175,000			
39	1,075	400		400		250,000			
175	1,020		200					30Acre	
10	950			850		250,000			
79	865			300				3 Acre	
38	813			800					
Avg.	1,448	950	558	1,850	650	370,000			
Tot.	20,265					2,960,000			
<b><u>MINOR FACILITIES</u></b>									
112	1,400		150	500	150	20,000			
73	880			175		3,200			
145	670			175		22,000			
170	466	180					22,000	coke	
20	462			150				3 Acre	
55	200			150		250,000			
134	195			260		35,000			
Avg.	610	180	150	500	182	66,040	22,000		
Tot.	4,273					330,200	22,000		



## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: ILLINOIS WATERWAY (Including barge facilities at the port of Chicago)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	

SPORADIC FACILITIES

103	2,300							18Acre
145	2,288			1,000				13Acre
199	1,500			200	200			7 Acre
179	1,327			100				8 Acre
143	1,000			250	250		50,000	
127	1,000							5 acre
92	875	1,000	1,000		800	800	100,000	
131	800			150	150	150	88,000	
194	720			150				8 Acre
104	580			150	150		50,000	
5	400			500	500	500	10,000	
108	285	150			150		150,000	
18	250							

Avg.	1,025	575	1,000	313	314	483	74,667	
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Tot.	13,325						448,000	
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ALL FACILITIES

Avg.	1,114	693	496	1,300	421	294	483	196,747	22,000
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Tot.	37,863							3,738,200	22,000
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## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: KANAWHA RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Storage	Barge from Truck	From Barge to Storage	Truck Rail	Open	Covered	

MAJOR FACILITIES

23	3,240	3,300						
44	2,000			1,500				
22	1,710			4,000		2,000,000		
63	1,200			2,000				
62	1,050				900	500,000		
Avg.	1,840	3,300		2,500	900	1,250,000		
Tot.	9,200					2,500,000		

MINOR FACILITIES

59	1,960	400	400		500	30,000		
58	1,750	500	500			400	2,000	MINE
65	1,600	600						
46	1,225		1,500					I 2ac
52	1,000		600			16,000		
55	958		300			3,000		
43	950	400				280,000		
53	900	250						MINE
48	800					10,000		
40	800	250						I
45	700		500			3,000		
56	675		250			500		
34	600			250		1,000		
41	600	250						
72	500		300	300				
70	475	2,200			150	20,000		
49	380		275			1,000		
50	380		300			10,500		
95	240	2,200			125	250,000		
Avg.	868	783	493	275	258	48,108	2,000	
Tot.	16,493					625,400	2,000	

ALL FACILITIES

Avg.	1,071	1,035	493	1,610	419	208,360	2,000	
Tot.	25,693					3,125,400	2,000	

Date: 10/11/88

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: KASKASKIA RIVER

Ref. Berth No.	Berth Length (ft)	Loading rate (Bu/Hr) To Barge from Storage Truck Rail		Unloading rate (Bu/Hr) From Barge to Storage Truck Rail		Total Storage Capy (tons) Open Covered		Remrks
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7	1,000			3,000				
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ALL FACILITIES

Avg.	1,000			3,000				
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Tot.	1,000							
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## SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	
<u>MAJOR FACILITIES</u>								
3	3,600			5,000		3,600,000		
90	3,255			3,600		56,000		
6	2,330			1,100		560,000		
Avg.	3,062			3,233		1,405,333		
Tot.	9,185					4,216,000		
-----								
<u>MINOR FACILITIES</u>								
91	1,740			200			15,000	coke
27	195	200		200				24 Ac
Avg.	968	200		200			15,000	
Tot.	1,935						15,000	
-----								
<u>SPORADIC FACILITIES</u>								
29	250							15 Ac
Avg.	250							
Tot.	250							
-----								
<u>ALL FACILITIES</u>								
Avg.	1,895	200		2,020		1,405,333	15,000	
Tot.	11,370					4,216,000	15,000	

Date: 10/11/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO to MISSOURI RIVER)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Storage	Barge from Truck	From Storage	Barge to Truck Rail	Open	Covered	
<u>MAJOR FACILITIES</u>								
84	2,237	4,500		4,500		500,000		
143	2,070			850		500,000		
8	1,850	300		300		500,000		
3	1,700	5,700		5,700		500,000		
25	1,620			1,300				
4	900			2,200				
130	540	150		150		150,000		S-ck
Avg.	1,560	2,663		2,800	500	430,000		
Tot.	10,917					2,150,000		
-----								
<u>MINOR FACILITIES</u>								
166	1,000							
18	600			500	500			+R ck
135	395							
38	200							
22	195					61,000		ck
2	90					10,000		
Avg.	413			500	500	35,500		
Tot.	2,480					71,000		
-----								
<u>ALL FACILITIES</u>								
Avg.	1,031	2,663		2,800	500	317,286		
Tot.	13,397					2,221,000		

Date: 10/11/86

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	
<u>MAJOR FACILITIES</u>								
33	3,280			1,200		1,500,000		
50	1,675			300		1,000,000		
156	1,400			1,250		685,000		
28	1,250			200		500,000		
217	1,200			1,000		400,000		4,000
29	885			500		350,000		
237	800	1,500	3,000			300,000		
36	300			250		1,000,000		
26	240					1,000,000		
Avg.	1,226	1,500	3,000	671		748,333		4,000
Tot.	11,030					6,735,000		4,000

<b>MINOR FACILITIES</b>								
74	1,600	1,500	1,500			100,000		
132	1,600			350		100,000		
204	1,500					100,000		
128	1,400			700		250,000		
69	1,150					4,000		
144	1,100			200		300,000		
208	919					100,000		
167	900			150		90,000		
247	880			450		15,000		
215	840			500		120,000		
183	835			550		200,000		
93	800			500		150,000		I
212	740			200		120,000		
166	690			250		176,000		
230	656			1,000		100,000		
83	575			600		550,000		
63	500			450		75,000		
3	500		300					
17	500			120				
211	450					60,000		
233	300					100,000		
148	300			300		120,000		
203	300							
90	285					6,500		
155	225			250		65,000		
162	210					500,000		
234	160							
186	100			300		60,000		
253	30					30,000		
Avg.	691	1,500	300	1,500	404	139,660		
Tot.	20,045					3,491,500		

Date: 10/11/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

Ref. Berth No.	Length (ft)	Loading rate (Bu/Hr) To Barge from Storage Truck		Unloading rate (Bu/Hr) From Barge to Storage Truck		Total Storage Capy (tons) Open Covered		Remrks
			Rail		Rail			

SPORADIC FACILITIES

102	1,150							I
32	1,100					60,000		
218	510							
207	400					4,500		
96	400			1,400				
95	250							
224	200							
97	200							
Avg.	526			1,400		32,250		
Tot.	4,210					64,500		

ALL FACILITIES

Avg.	767	1,500	300	1,967	482	285,861	4,000
Tot.	35,285					10,291,000	4,000

Date: 10/11/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: MISSOURI RIVER

Ref. Berth No.	Length (ft)	Loading rate (Bu/Hr) To Barge from Storage Truck Rail		Unloading rate (Bu/Hr) From Barge to Storage Truck Rail		Total Storage Capy (tons) Open Covered		Remrks
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MINOR FACILITIES

11	500			200		100,000		
41	400			350		125,000		
14	325	50		50				
40	300					3,000		
35	195				2,200	20,000		
Avg.	344	50		200	2,200	62,000		
Tot.	1,720					248,000		

ALL FACILITIES

Avg.	344	50		200	2,200	62,000		
Tot.	1,720					248,000		



Date: 10/17/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: MONONGAHELA RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Storage	Barge from Truck	From Storage	Barge to Truck Rail	Open	Covered	
<b><u>MAJOR FACILITIES</u></b>								
126	4,300			2,000		1,000,000		
171	3,910	2,500		2,000		22,000		
139	3,550	1,200						
142	3,055	800						
124	2,619	900						
79	2,500			1,200				
80	2,400			960				
127	2,354	1,000		2,000		2,000		
128	2,145	1,000				8,000		
135	1,925			900		700,000		
203	1,800			850		9,900		
71	1,540				2,000			
91	1,420			500		300,000		
95	1,400	450				2,000		
123	1,320	1,000						
121	1,320	400				15,000		
77	1,290	1,200				1,000,000		
130	1,285	600				3,000		
191	1,000	800				100,000		
159	525							
Avg.	2,083	988		1,301	2,000	263,492		
Tot.	41,658					3,161,900		

Date: 10/17/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: MONONGAHELA RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Barge	from Storage	From Barge	to Storage	Open	Covered	

MINOR FACILITIES

206	1,350	200						
140	1,113	300				3,000		
202	1,050							
129	1,050		500					
167	1,050					120,000		
157	1,050							
170	1,050	350				10,000		
169	1,050		300					
136	1,000							
146	1,000					8		
168	983							
186	910	500				5		
125	901	500						
109	875	350				4,500		
134	875					10,000		
166	790	450				30,000		
165	780	650				10,000		
102	728					18		
131	725	200				9,000		
131	725	200				9,000		
147	710							
137	700		500			3,000		
132	700		560			2,000		
138	700	500				30,000		
64	675							
88	580	500				500,000		
100	570							12 ac
148	520							7 ac
122	300	400				68,000		
Avg.	845	392	465			47,561		
Tot.	24,510					808,530		

Date: 10/17/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: MONONGAHELA RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr) To Barge from Storage Truck	Rail	Unloading rate (Bu/Hr) From Barge to Storage Truck	Rail	Total Storage Capy (tons) Open	Covered	Remrks
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SPORADIC FACILITIES

85	525							20 ac
101	390							7 ac
182	376							4 ac
87	375							10 ac
196	250					25,000		
160	200							
118	175							
119	175		100					
155	175							2 ac
174	90							
Avg.	273		100			25,000		
Tot.	2,731					25,000		

ALL FACILITIES

Avg.	1,168	678	392	1,301	2,000	133,181	
Tot.	68,899					3,995,430	

Date: 10/12/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: TENNESSEE RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)			Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Storage	Barge	Truck	From Storage	Barge to Truck	Open	Covered	
<b>MAJOR FACILITIES</b>									
64	4,130				1,400		800,000		
50	2,940				600		1,500,000		
180	1,850	600	600	600			1,000,000		
132	1,650				600		1,000,000		
65	1,250				5,000		300,000		
38	1,159			10,000					100car
138	880		600				100,000		
70	700			1,500					100car
41	450				375				do. 40
Avg.	1,668	600	600	4,033	1,595		783,333		
Tot.	15,009						4,700,000		

<b>MINOR FACILITIES</b>									
170	1,430				200		300,000		Inactv
39	1,345								UC
40	1,200			6,000			80,000		230car
91	1,160				400		50,000		
186	1,063				300		20,000		
136	560								1.4 Ac
87	530								1.5 Ac
69	500						9,000		coke
142	490						15,000		coke
86	462						10,000		Inactv
143	450						5,000		
28	280					125			col&ck
46	200								contnr
13	175				300			3,000	coke
Avg.	703			6,000	300	125	61,125	3,000	
Tot.	9,845						489,000	3,000	

# SUMMARY OF COAL-HANDLING PARGE FACILITIES

Date: 10/12/88

## WATERWAY: TENNESSEE RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)			Remrks
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered		
<u>SPORADIC FACILITIES</u>									
36	700								tk-brg
52	700								8 Acre
10	700	500					14,200		coke
185	650					20,000			
129	585								tr-brg
130	585								tr-brg
35	195								
56	135			200					4 Acre
Avg.	531	500		200		20,000	14,200		
Tot.	4,250					20,000	14,200		

## ALL FACILITIES

Avg.	939	550	600	4,525	938	125	347,267	8,600
Tot.	29,104						5,209,000	17,200

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: OHIO RIVER (PITTSBURGH to CAIRO)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	
MAJOR FACILITIES								
129	5,800			2,000		700,000		
183	5,800			1,500		2,500,000		
7	5,280		2,600			300,100		
193	4,070			4,000		1,000,000		
109	3,650			4,000		1,500,000		
189	3,600			3,600		900,000		
242	3,570			8,000		2,700,000		
243	3,400			2,000		1,000,000		
8	3,380			5,000		1,700,000		
100	3,300			5,000		700,000		
156	3,285			5,500		1,500,000		
14	3,000		3,000					
103	2,800			3,600		1,000,000		
9	2,800			2,000		1,365,000		
121	2,745			1,500		986,000		
43	2,500	3,500				700,000		
148	2,280		900			7,500		
90	2,200	3,500				700,000		
1	2,000		1,000			25,015		
10	2,000		2,450					180
159	1,970			750		500,000		
173	1,900			700		1,200,000		
235	1,810			1,000		1,600,000		
143	1,800			1,500		1,400,000		
174	1,800			700		1,200,000		
250	1,750	1,000				15,000		
22	1,658			850		500,000		
207	1,560			900		550,000		
12	1,560			4,250		2,200,000		
160	1,500			450		300,000		
252	1,325		1,700					
110	1,220	1,100				1,000,000		
3	1,200		900					
71	1,120			1,300		1,800,000		
10	780		900			1,255		
51	700					1,000,000		
37	525		1,500					40 ac
155	440			1,200		600,000		
Avg.	2,423	2,700	1,000	1,661	2,554	1,004,542	180	
Tot.	92,078					33,149,870	180	

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: OHIO RIVER (PITTSBURGH to CAIRO)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Remrks
		To Barge	from Storage Truck	From Barge	to Storage Truck	Open	Covered	

MINOR FACILITIES

188	1,960			190		30,000		
226	1,900					12		
77	1,680	400				80,000		
20	1,591			900				4,000
212	1,570	900				100,000		
211	1,555	900				100,000		
210	1,515							
236	1,500			300		65,000		
112	1,400			170		7,400		
28	1,384			500		250,000		
45	1,315	1,800				84,000		
53	1,300	4,500				400,000		
194	1,250	600				50,000		
144	1,200	1,200				10,000		
34	1,200			1,600		200,000		
52	1,200							
138	1,160					100,000		
16	1,140				500			
190	1,100					150,000		
111	1,100			850		25,000		
11	1,050			200				3 ac
264	1,010				300			
167	1,000	150				75,000		
165	1,000			350				
41	1,000			600		15,000		
240	950	750				20,000		
203	950	3,500				16,000		
44	950	700				200,000		
59	950	500				4,800		
209	900	200						
234	900							15 ac
157	900	1,500				12,000		
246	895	500				20,000		
235	890					200,000		
244	880	600				10,000		
76	875	500		350		100,000		
184	875	1,000				90,000		
120	800	400		500		3,600,000		
85	720	400				75,000		
30	700	275		175				8 ac
199	700							3 ac
75	700	500				70,000		
185	700	1,000				100,000		
139	695		250			125,000		

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

## WATERWAY: OHIO RIVER (PITTSBURGH to CAIRO)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)			Total Storage Capy (tons)		Remrks
		To Barge from Storage	Truck	From Barge to Storage	Truck	Rail	Open	Covered	
27	690		200						
186	650			300					3 ac
108	615		250						
84	600		100				2,000		
55	600	1,400					200,000		
80	600	750					400,000		
233	585	450					3,000		
184	580								
252	565		750				20,000		
111	530			1,000			1,000,000		
10	525			300			50,000		
38	525	850					300,000		
201	440	350					10,000		
205	430	150					50,000		
101	400	800					6,000		
164	395								7 ac
149	390	500							25 ac
54	390	1,200					100,000		
50	360	300					30,000		
245	350	300					4,000		
108	315	930					85,000		
269	300				100				
96	300								
92	300	530					100,000		
13	275	400					7		
53	240			450			250,000		
202	220	500					15,000		
173	210								
105	200					110	10,000		
107	200					110	2,000		
148	200			500					25 ac
158	200								
127	195						1,000,000		
196	195		500						
110	195	1,000					100,000		
182	172	1,500					60,000		
92	150	500					1,000,000		
183	120			200					
229	115								8 ac
225	100			400					
Avg.	755	858	342	492	100	255	192,780	4,000	
Tot.	63,432						11,181,219	4,000	



Date: 10/12/88

## SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH to CAIRO)

Ref. Berth		Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy		
No.	Length (ft)	To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Remrks

SPORADIC FACILITIES

93	300						100	
170	230							
158	200							
24	195							
169	120						10,000	
Avg.	209						5,050	
Tot.	1,045						10,100	

160	275						25,000	
Avg.	275						25,000	
Tot.	275						25,000	

ALL FACILITIES

Avg.	1,225	984	436	1,661	1,617	100	255	471,981	2,090
Tot.	156830							44,366,189	4,180

Date: 10/12/88

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: TENNESSEE-TOMBIGBEE WATERWAY

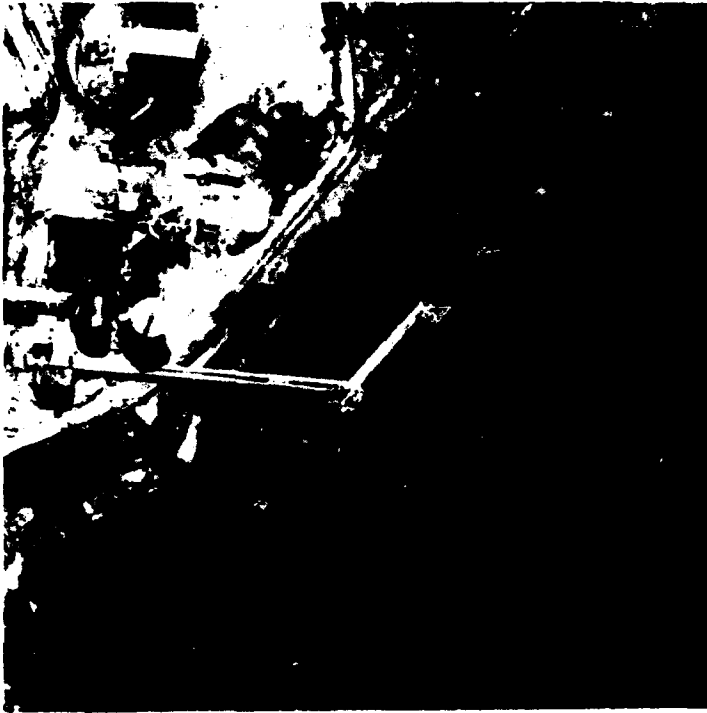
Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr) To Barge from Storage Truck	Rail	Unloading rate (Bu/Hr) From Barge to Storage Truck	Rail	Total Storage Capy (tons) Open	Covered	Remrks
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MINOR FACILITIES

3	1,000			100				
Avg.	1,000			100				
Tot.	1,000							

ALL FACILITIES

Avg.	1,000			100				
Tot.	1,000							



## PETROLEUM HANDLING TERMINALS

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Where data is available, asphalt and crude oil storage facilities are shown separately, listings being arranged in descending order of tannage. Major Facilities are perceived as refineries, power plants or large industries receiving a majority of their fuel oil by barge, or an active terminal with 1,000,000 + barrel dedicated petroleum storage capacity. Medium Terminals are identified as engaged in local fuel distribution, a minor industry, a minor crude oil collection facility, or one in which total petroleum handling represents a very minor portion of waterfront activity. Minor Facilities could be inactive but viable, have minimum of activity with small tannage, be used only sporadically, or handle crude oil on minuscule basis.

Date: 9/23/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: ALABAMA RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<u>MINOR FACILITIES</u>					
101	160	R	110,000		
100	780	R	40,000		
95	200	S		12,000	
94	300	S		8,000	
93	300	S		6,000	
91	200	S		5,300	
92	300	S		5,000	
Average:	320		75,000	7,260	
Total:	2,240		150,000	36,300	
<u>ALL FACILITIES</u>					
Average:	320		75,000	7,260	
Total:	2,240		150,000	36,300	

Date: 9/22/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

## WATERWAY: ALLEGHENY RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<u>MEDIUM FACILITIES</u>					
234	455	R	238,100		
228	350	R/S	214,000		
214	200	R	166,700		
208	340	R	131,000		
210	195	R/S	107,000		
236	401	R			154,000
Average:	324		171,360		154,000
Total:	1,941		856,800		154,000
<u>ALL FACILITIES</u>					
Average:	324		171,360		154,000
Total:	1,941		856,800		154,000

Date: 9/23/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: APALACHICOLA, CHATTAHOOCHEE, FLINT RIVERS

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<u>MINOR FACILITIES</u>					
21	100	X	95,000		
17	30	R	70,000		
15	200	R	22,600		
23	586	R	20,000		
9	150	R			80,000
Average:	213		51,900		80,000
Total:	1,066		207,600		80,000

**WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR-ARKANSAS  
RIVER NAVIGATION SYSTEM)**

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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**MINOR FACILITIES**

36	400	R	490,000		
99	275	R	263,750		
97	600	R	225,000		135,000
75	700	R/S	205,000		225,000
34	150	R	198,000		
88	195	R/S	120,000		
76	100	R/S	110,000		144,000
77	150	R/S	100,000		
19	400	R	100,000		77,000
21	300	R	75,000		
56	110	X	50,000		

**ALL FACILITIES**

Average:	307		176,068		145,250
Total:	3,380		1,936,750		581,000

Date: 9/23/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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MEDIUM FACILITIES

51	372	R/S	222,500	210,000	
30	200	R	159,700		
86	350	R/S	55,000	260,000	
58	200	S		110,000	
Average: 281			149,067	193,333	
Total: 1,122			447,200	580,000	

MINOR FACILITIES

75	200	X	150,000		
34	240	R	95,200		
89	200	R	60,000		
43	200	R	40,500		
79	240	R	27,400		
29	200	R	17,900		
40	200	S		80,000	
32	212	X		80,000	
85	200	R/S			70,000
68	300	R			50,000
Average: 219			65,167	80,000	60,000
Total: 2,192			391,000	160,000	120,000

ALL FACILITIES

Average: 237			93,133	148,000	60,000
Total: 3,314			838,200	740,000	120,000



Date: 9/23/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: COLUMBIA-SNAKE RIVER SYSTEM (ABOVE THE DALLES - MILE 191.5)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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MEDIUM FACILITIES

130	265	R/S	590,000		
132	300	R/S	379,200		
124	500	R	285,700		
114	300	R/S	212,000		

Average: 341 366,725

Total: 1,365 1,466,900

MINOR FACILITIES

142	375	R	85,000		
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Average: 375 85,000

Total: 375 85,000

ALL FACILITIES

Average: 348 310,380

Total: 1,740 1,551,900

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

## WATERWAY: CUMBERLAND RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<u>MEDIUM FACILITIES</u>					
20	450	R	425,000		90,000
31	375	R	357,000		
25	190	R	347,000		
37	175	R	192,000		
22	150	R	140,000		
40	280	R	20,000		160,000
48	275	R			140,000
Average:	271		246,833		130,000
Total:	1,895		1,481,000		390,000
<u>MINOR FACILITIES</u>					
41	200	X	210,000		
29	330	R	59,500		
19	175	R	23,000		
30	800	S		25,000	
Average:	376		97,500	25,000	
Total:	1,505		292,500	25,000	
<u>ALL FACILITIES</u>					
Average:	309		197,056	25,000	130,000
Total:	3,400		1,773,500	25,000	390,000

Date: 9/23/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: GULF INTRACOASTAL WATERWAY (EAST END TO MILE 5W)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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MAJOR FACILITIES

50	590	R	930,000		
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Average: 590			930,000		
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Total: 590			930,000		
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MEDIUM FACILITIES

55	424	R	150,000		
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Average: 424			150,000		
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Total: 424			150,000		
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MINOR FACILITIES

49	104	R	11,900		
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310	180	R	6,000		
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Average: 142			8,950		
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Total: 284			17,900		
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ALL FACILITIES

Average: 325			274,475		
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Total: 1,298			1,097,900		
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Date: 9/22/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

## WATERWAY: KANAWHA RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<u>MEDIUM FACILITIES</u>					
38	500	R	184,000		
21	195	R	119,000		
80	390	R	117,300		
57	400	R	115,600		
Average: 371			133,975		
Total: 1,485			535,900		
<u>MINOR FACILITIES</u>					
60	400	R	79,000		
29	195	R	69,900		
47	392	R	19,500		
Average: 329			56,133		
Total: 987			168,400		
<u>ALL FACILITIES</u>					
Average: 353			100,614		
Total: 2,472			704,300		

Date: 9/21/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY, INCLUDING BARGE FACILITIES AT THE PORT  
OF CHICAGO

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs)			REMARKS
			PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT	

MAJOR FACILITIES

115	2,050	R/S	8,000,000			
62	1,250	R	4,290,000			
80	850	R/S	2,402,000			INC
71	1,270	R/S	1,800,000			
200	376	R/S	928,700			
Average:	1,159		3,484,140			
Total:	5,796		17,420,700			

MEDIUM FACILITIES

149	750	S	1,215,000			
83	920	R/S	880,000			
92	650	R/S	875,000			INC
201	350	R	750,000			
164	1,220	R/S	610,200			INC
74	555	R/S	576,000			
69	567	R/S	552,000			
100	2,740	R/S	541,000			INC
59	920	R	500,000			
73	200	R	474,000			
62	810	R/S	430,000			INC
121	2,661	R/S	400,000			INC
30	400	R	380,600			
16	195	R	260,000			
32	100	R	257,400			
56	292	R	241,000			
57	275	R	230,000			
53	195	R	226,100			
55	150	R	212,000			
113	430	R/S	210,000			
9	540	R	190,500			
34	400	R	119,000			
128	200	R/S	100,000			
146	1,861	R	95,200			
35	400	R	92,500			
106	500	R	85,000			INC
143	1,000	R		350,000		
77	350	R		225,000		
132	400	R		114,000		
Average:	691		403,942	229,667		
Total:	20,031		10,502,500	689,000		

Date: 9/21/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY, INCLUDING BARGE FACILITIES AT THE PORT  
OF CHICAGO

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT	REMARKS
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MINOR FACILITIES

70	2,221	R	673,300			X
49	1,853	R/S	522,750			X
72	330	R	512,300			X
85	290	R	470,000			X
66	700	R	400,000			X
63	597	R	241,000			
197	310	R	165,000			
129	315	R	85,000			
64	85	R	76,700			
102	400	R	71,500			X
83	540	R	47,600			X
75	760	R/S	700			
4	150	S		2,500		
Average:	658		272,154	2,500		
Total:	8,551		3,265,850	2,500		

ALL FACILITIES

Average:	731		725,327	2,500	229,667
Total:	34,378		31,189,050	2,500	689,000

(X) - INACTIVE WHARF OR PETROLEUM HANDLING FACILITIES

(INC) - TANKAGE INCLUDES OTHER BULK LIQUIDS/BREAKOUT OF DEDICATED PETROLEUM  
TANKAGE IS NOT AVAILABLE OR IS TOO VARIABLE TO DEFINE ACCURATELY

Date: 10/11/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<u>MAJOR FACILITIES</u>					
68	530	R	1,850,000		
23	550	R	1,500,000		
115	390	R/S	1,040,000		
96	300	R/S	1,000,000		
128	600	R	1,000,000		
121	980	S	985,000		
Average:	558		1,229,167		
Total:	3,350		7,375,000		

Date: 10/11/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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MINOR FACILITIES

10	290	R/S	925,000		
52	1,000	S	420,000		
12	390	R/S	417,000		
39	775	R	411,300		71,800
74	275	R	397,000		
30	125	R	378,000		
114	250	R/S	332,100		
14	300	R/S	275,000		
9	195	R/S	266,000		
80	300	R	237,000		
26	260	R	179,000		
22	200	I	175,000		
107	195	R	165,000		
41	200	R/S	163,500		
81	200	R	135,000		
38	300	R	125,000		
40	320	R/S	122,000		
88	240	R	121,000		73,000
53	450	R	119,500		
28	110	R	116,000		
31	100	R	116,000		
24	273	R	111,700		
98	250	R	110,000		
82	175	R	109,350		
97	425	R	95,200		
9	300	R/S	75,000	810,600	
50	175	R	70,000		
4	195	R/S	70,000		
67	195	I	50,000		
6	2,330	R	47,000		
33	150	R/S	40,000		73,000
92	140	R	40,000		
67	215	R	21,400		
11	360	R		625,000	
24	400	R		328,000	
23	200	R/S		210,000	
25	300	R/S		200,000	
18	590			150,000	
27	250	R			65,700
18	175				50,000
88	250	I			
Average:	337		195,002	387,267	66,700
Total:	13,823		6,435,050	2,323,600	333,500



Date: 10/11/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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ALL FACILITIES

Average:	365		354,104	387,267	66,700
Total:	17,173		13,810,050	2,323,600	333,500

Date: 8/09/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO to MISSOURI RIVER)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<b><u>MAJOR FACILITIES</u></b>					
17	500	R/S	2,100,000		
Average:	500		2,100,000		
Total:	500		2,100,000		
<b><u>MEDIUM FACILITIES</u></b>					
36	370	R/S	800,000		
122	360	R/S	595,200		
35	435	R/S	500,000		
114	465	R/S	481,000		
112	180	R/S	476,200		
171	40	R/S	444,000		
133	340	R	265,000		
92	380	R/S	242,500		135,000
113	380	R/S	214,300		
37	460	R		680,000	
Average:	341		446,467	680,000	135,000
Total:	3,410		4,018,200	680,000	135,000
<b><u>MINOR FACILITIES</u></b>					
27	240	R	200,000		
109	340	R	160,000		
164	290	R	114,000		
162	410	R	101,200		
132	195	R	96,000		
165	365	R	78,000		
108	225	R	48,800		
116	390	R/S	30,000		
94	200	R	9,500		
Average:	295		93,056		
Total:	2,655		837,500		
<b><u>ALL FACILITIES</u></b>					
Average:	328		366,089	680,000	135,000
Total:	6,565		6,955,700	680,000	135,000

Date: 10/13/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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MAJOR FACILITIES

47	535	S	4,700,000		
52	650	R/S	3,000,000		
2	350	R	1,000,000		
87	425	R	1,000,000		
89	400	X	906,000		
133	689	S	873,000		
33	1,980	X	838,000		
45	515	R/S	600,000		
41	540	R/S	240,000	699,000	
57	440	R/S	208,000	928,000	215,000
46	535	R/S		2,600,000	2,000,000
135	1,620	R		1,844,300	
50	400	R/S			1,000,000
48	535	R/S			
Average:	687		1,336,500	1,517,825	1,071,667
Total:	9,614		13,365,000	6,071,300	3,215,000

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

## WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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MINOR FACILITIES

88	300	R	712,000		
139	300	R/S	607,100		
242	96	R	418,000		
191	75	R	362,250		
206	150	R	357,200		
84	200	R	357,100		47,600
58	200	R/S	350,000		
193	400	R	340,000		
194	350	R	313,000		
153	400	X	309,500		
163	750	R	280,000		53,000
85	200	X	229,000		
175	415	R	220,000		100,000
21	450	R	214,300		
244	175	R	166,700		
188	300	X	166,700		
205	400	R	160,000		170,000
189	195	R	150,000		
48	675	R/S	142,800		
226	200	R	126,200		
59	230	R	95,200		523,800
41	600	R	95,200		166,700
248	280	R	38,000		
134	195	S			1,723,380
95	250	R			190,500
98	195	R			142,900
69	245	R			59,500
49	535	S			
Average:	313		270,011		317,738
Total:	8,761		6,210,250		3,177,380

ALL FACILITIES

Average:	438	593,189	1,517,825	491,722
Total:	18,375	19,575,250	6,071,300	6,392,380

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

## WATERWAY: MISSOURI RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<b><u>MAJOR FACILITIES</u></b>					
37	428	X	1,200,000		
Average:	428		1,200,000		
Total:	428		1,200,000		
<b><u>MINOR FACILITIES</u></b>					
42	600	R			170,000
53	480	X			
57	400	R			83,000
47	360	R	256,000		
105	300	R			200,000
87	300	X	83,300		
17	280	X			
Average:	389		169,650		151,000
Total:	2,720		339,300		453,000
<b><u>ALL FACILITIES</u></b>					
Average:	394		513,100		151,000
Total:	3,148		1,539,300		453,000

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

## WATERWAY: MONONGAHELA RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<u>MEDIUM FACILITIES</u>					
90	320	R	283,000		244,100
65	150	R/S	214,000		
67	312	R/S	203,000		
201	1,000	R	190,500		
72	450	R	190,000		
92	450	R	156,200		
111	465	R	156,000		
73	525	R/S	119,000		71,400
203	175	R/S	28,800		102,400
78	195	R/S			380,000
Average:	404		171,167		199,475
Total:	4,042		1,540,500		797,900
<u>MINOR FACILITIES</u>					
162	240	R	83,000		
107	490	R/S	54,700		25,200
74	350	X	47,600		
69	150	R	47,600		
143	150	R	44,000		
161	134	R	40,000		
180	386	R	28,500		
141	200	R	19,000		
183	350	R/S	15,500		
120	100	X	8,300		
181	140	R/S			17,850
Average:	245		38,820		21,525
Total:	2,690		388,200		43,050
<u>ALL FACILITIES</u>					
Average:	321		101,511		140,158
Total:	6,732		1,928,700		840,950

Date: 10/11/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<u>MAJOR FACILITIES</u>					
217L	303	R/S	1,110,000		
150C	135	S	986,900		
175H	340	R/S	934,000		
48P	817	R/S	835,000		
216L	150	R/S	800,000	450,000	
131C	175	R	750,000		
133L	400	R/S	750,000		
168H	450	R/S	685,000		
2H	1,028	S	673,500		
136L	110	R/S	524,000		
134C	100	R	501,000		
113C	220	R	490,000		
33P	280	R/S	450,000		
55P	540	R/S	400,000		
102L	195	R/S		1,000,000	
153C	400	R/S		688,000	1,023,000
134L	356	R			1,000,000
163H	370	R/S			595,000
163H	370	R/S			595,000
130H	130	R/S			465,000
Average:	343		706,386	712,667	735,600
Total:	6,869		9,889,400	2,138,000	3,678,000

Date: 10/11/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

## WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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MEDIUM FACILITIES

32P	825	R/S	385,000		
219L	200	R	350,000		
187H	440	R/S	309,500		
266P	305	R/S	306,000		
276P	315	R	293,000		
135C	800	R	291,000		
265P	225	R	275,000		
170H	1,860	R/S	267,000		
201L	400	R	256,000		
272P	300	R	250,000		
31P	155	R	250,000		
138C	120	R	250,000		
129L	375	R/S	250,000		
47P	441	R/S	240,000		
168L	360	R	240,000		
249P	1,315	R	230,000		
101C	150	R	220,000		
132C	400	R/S	214,000		
18C	450	R	210,000		
135L	220	R/S	203,000		
149L	400	R	203,000		
169L	195	R/S	201,000		
278P	450	R/S	200,000		
156C	850	R	200,000		
19C	250	R	200,000		
95C	150	R	145,000		
141H	170	R	143,000		
241H	195	R	143,000		
188L	1,960	R	143,000		
172C	195	R	142,500		
118L	195	R	140,000		
57L	175	R	140,000		
54C	400	R	137,000		
239L	175	R/S	120,000		
188H	425	R	119,000		
99L	600	R	118,000		
125L	190	R	115,000		
183H	120	R	110,000		
216H	465	R		175,000	
151C	380	R			214,200
195H	320	R			140,000
Average:	437		210,763	175,000	177,100
Total:	17,916		8,009,000	175,000	354,200



SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

Date: 10/11/88

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED PETROLEUM PRODUCTS	TO BARGE FACILITY (BBLs) CRUDE OIL      ASPHALT
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MINOR FACILITIES

277P	300	X	300,000	
116C	40	R	114,000	
103L	135	R	112,000	
147L	175	R	110,000	
221H	195	R	106,000	
123C	195	R	105,000	
200L	300	R	100,000	
136H	140	R	95,200	
42C	150	S	88,000	
2L	300	R/S	85,900	
16H	195	R	80,000	
110H	200	R	71,400	
220H	160	R	68,200	
231H	185	R	67,000	110,000
223H	350	R	67,000	
34P	243	R	65,000	
217H	210	R	65,000	
215H	90	R	65,000	
142H	160	R	60,000	
239H	195	R	58,000	
12H	195	X	52,400	
193H	4,000	R	52,400	
109C	150	R	52,400	
156H	200	R	50,400	
164H	800	R	47,600	
18H	380	R	47,600	
124H	195	R	47,600	
133H	165	R	47,600	
117L	150	R/S	46,900	
9H	195	R	45,250	
81C	200	R	45,000	
192H	1,245	S	40,500	
101L	150	R	40,000	
126H	330	R	35,000	
129C	200	R	32,300	
8H	195	R	30,950	
178L	200	R	30,000	
122H	200	R	28,600	
88L	195	R	28,600	
154H	125	R	28,500	
9P	800	R	26,000	
232H	100	R	24,000	
113H	390	R	23,800	

Date: 10/11/88

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

## WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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MINOR FACILITIES (continued)

147C	195	R	23,800		
97L	170	R	23,800		
161C	175	R	20,200		
224H	160	R	20,000		
128H	125	R	19,000		
152H	120	R	17,600		
131L	200	R/S	11,000		
166H	140	S	10,700		
57P	200	S	10,000		
50P	129	R/S	6,000		
118H	240	R	3,530		
230H	165	R		98,700	
219H	150	R		45,000	
222H	150	R		23,800	
142L	250	R			93,000
124L	180	R			80,000
145L	200	R			66,000
51C	175	S			47,600
16C	400	X			
Average:	292		54,101	55,833	79,320
Total:	18,402		2,975,530	167,500	396,600

ALL FACILITIES

Average:	348		195,083	354,357	369,067
Total:	43,187		20,873,930	2,480,500	4,428,800

Date: 8/09/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

**WATERWAY:OUACHITA RIVER**

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
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**MINOR FACILITIES**

10	195	X	186,800		
8	480	R	125,000		
16	450	X		24,000	
5	400	X		20,000	
<hr/>					
Average:	381		155,900	22,000	
Total:	1,525		311,800	44,000	

**ALL FACILITIES**

Average:	381		155,900	22,000	
Total:	1,525		311,800	44,000	

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

## WATERWAY: TENNESSEE RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<u>MEDIUM FACILITIES</u>					
145	120	R	480,000		98,000
32	727	R/S	215,000		
64	4,130	R	214,300		
7	175	R	179,000		
85	650	R	164,300		
21	200	R/S	158,000		
8	100	R	158,000		
66	90	R	115,000		
191	295	R	53,500		95,200
144	425	R/S			150,000
152	195	R			92,000
Average:	646		193,011		108,800
Total:	7,107		1,737,100		435,200
<u>MINOR FACILITIES</u>					
190	240	X	141,800		
24	195	X	35,000		
187	350	X	104,000		
131	390	R	95,200		
11	200	R	63,400		
49	460	R	54,800		
153	195	R	23,800		
67	150	X	13,000		
55	600	R			75,000
Average:	309		78,875		75,000
Total:	2,780		631,000		75,000
<u>ALL FACILITIES</u>					
Average:	494		139,300		102,040
Total:	9,887		2,368,100		510,200

## SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

## WATERWAY: TENNESSEE-TOMBIGBEE WATERWAY

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS	CRUDE OIL	ASPHALT
<hr/>					
<u>MEDIUM FACILITIES</u>					
1	360	R			195,000
<hr/>					
Average:	360				195,000
Total:	360				195,000
<hr style="border-top: 1px dashed black;"/>					
<u>ALL FACILITIES</u>					
Average:	360				195,000
Total:	360				195,000



## DRY BULK MATERIAL HANDLING TERMINALS

This commodity category is subdivided into 9 sub-categories: Cement; Feed, Meal, Flour, and Other Related Items; Fertilizer/Fertilizer Component; Sand, Gravel, Stone, and Related Items; Scrap Metal; Miscellaneous Ores (alumina, pig iron, magnetite, etc.); Sugar; Salt; and Miscellaneous (unspecified, wood chips, fish meal, waste products, etc.). Each entry is arranged according to descending berthing length.

Transfer rates between barge and truck, rail, and/or open and covered storage areas are given where available.

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: ALABAMA RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres
<u>FERTILIZER/FERTILIZER COMPONENTS</u>								
113	100			120			20,000	
Avg.	100			120			20,000	
Tot.	100						20,000	
-----								
<u>SAND, STONE AND GRAVEL</u>								
98	600	1,000				40,000		
110	200	400				100,000		
108	200							1.0
106	135	560				500,000		
105	100	400				550,000		
Avg.	247	590				297,500		1
Tot.	1,235					1,190,000		1.0
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<u>MISCELLANEOUS BULK CARGO</u>								
114	650							
109	325							
102	110	60						
115	90			450		200,000		
Avg.	294	60		450		200,000		
Tot.	1,175					200,000		
-----								
<u>ALL FACILITIES</u>								
Avg.	251	484		285		278,000	20,000	1.0
Tot.	2,510					1,390,000	20,000	1.0

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

## WATERWAY: ALLEGHENY RIVER

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres
<u>SAND, STONE AND GRAVEL</u>								
217	870					18,000		
223	800					120,000		
216	700					300,000		
243	490							
215	350					80,000		
209	350					35,000		
222	350							
235	200			100		8,000		
239	200					4,000		
226	175	250						
221	175					200,000		
Avg.	424	250		100		95,625		
Tot.	4,660					765,000		
<u>MISCELLANEOUS BULK CARGO</u>								
230	705							45.0
219	500					15,000		
227	400					100,000		
218	350							12.5
231	195							5.0
238	175						1,475	
Avg.	388					57,500	1,475	21
Tot.	2,325					115,000	1,475	62.5
<u>ALL FACILITIES</u>								
Avg.	411	250		100		88,000	1,475	20.8
Tot.	6,985					880,000	1,475	62.5



Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: APALACHICOLA, CHATTAHOOCHEE, AND FLINT RIVERS

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Storage	Barge from Truck Rail	From Barge to Storage	Truck Rail	Open	Covered	Acres

FERTILIZER/FERTILIZER COMPONENTS

10	9,000			110		13,000	67,000	
18	516			100			56,000	
Avg.	4,758			105		13,000	61,500	
Tot.	9,516					13,000	123,000	

MISCELLANEOUS ORES

19	354							112.0
Avg.	354							112
Tot.	354							112.0

SAND, STONE AND GRAVEL

18	516			500		20,000		
7	175			100		500,000		
22	175	200				100,000		
Avg.	289	200		300		206,667		
Tot.	866					620,000		

MISCELLANEOUS BULK CARGO

6	300			200		5,000	38,000	8.0
Avg.	300			200		5,000	38,000	8
Tot.	300					5,000	38,000	8.0

ALL FACILITIES

Avg.	1,577	200		267	105	127,600	53,667	60.0
Tot.	11,036					638,000	161,000	120.0

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR - ARKANSAS RIVER  
NAVIGATION SYSTEM)

Ref. Berth No.	Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)			Acres
		To Barge	from Storage Truck	From Barge	to Storage Truck	Open	Covered		

CEMENT

34	150			80				3,400	
Avg.	150			80				3,400	
Tot.	150							3,400	

FEED, MEAL, FLOUR, ETC.

59	380			110				4,000	
Avg.	380			110				4,000	
Tot.	380							4,000	

FERTILIZER/FERTILIZER COMPONENTS

33	930								3.0
37	600			900					
14	540			200				20,000	
98	375	150		150				70,000	
85	260			200				30,000	
38	200				250				
39	200			800				26,000	
Avg.	429	150		450	250			36,500	3
Tot.	3,005							146,000	3.0

SAND, STONE AND GRAVEL

54	1,600	1,000						30,000	
62	800			500				90,000	
49	525							50,000	
58	350			350				80,000	
42	300			1,000				50,000	
35	195								
55	195	500							
46	195			350				40,000	
57	175								
72	100			100				86,300	
Avg.	444	750		460				60,900	
Tot.	4,435							426,300	

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR - ARKANSAS RIVER  
NAVIGATION SYSTEM)

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)			Acres
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered		

MISCELLANEOUS BULK CARGO

33	830								18.0
75	700								
52	600								12.0
91	400		400						
43	350								
80	340								10.0
92	295				130		12,000		
63	205								
74	200								
86	200	250					20,000		
87	200								
93	180								8.0
53	120								
Avg.	355	250	400		130		16,000		12
Tot.	4,620						32,000		48.0

ALL FACILITIES

Avg.	393	583	275	395	190	16,000	44,592	10.2
Tot.	12,590					32,000	579,700	51.0

Date: 10/03/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)WATERWAY: BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER  
SYSTEM)

Ref. Berth No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Acres
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	

CEMENT

49	390	1,200					5,500	
Avg.	390	1,200					5,500	
Tot.	390						5,500	

FERTILIZER/FERTILIZER COMPONENTS

21	210			250			20,000	
Avg.	210			250			20,000	
Tot.	210						20,000	

MISCELLANEOUS ORES

73	800			600			200,000	
Avg.	800			600			200,000	
Tot.	800						200,000	

SALT

45	600			150				
Avg.	600			150				
Tot.	600							

SAND, STONE AND GRAVEL

33	1,510							
41	500			250			100,000	
76	400	1,150						
24	200							14.0
Avg.	653	1,150		250			100,000	14
Tot.	2,610						100,000	14.0

Date: 10/03/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: **BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)**

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Barge	from Storage Truck	From Barge	to Storage Truck	Open	Covered	Acres

MISCELLANEOUS BULK CARGO

53	600					24,000		
71	600							
23	498							
52	200	500				40,000		
Avg.	475	500				32,000		
Tot.	1,898					64,000		

ALL FACILITIES

Avg.	542	850	1,150	600	217	91,000	12,750	14.0
Tot.	6,508					364,000	25,500	14.0

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: COLUMBIA RIVER (ABOVE THE DALLIES - MILE 191.5)

Ref. Berth No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)	
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered Acres

WOOD CHIPS

112	800	90				2,400
145	400	240				3,000
144	375	140				10,000
108	300	250				29,000
150	200	180				5,400
Avg.	415	180				9,960
Tot.	2,075					47,800

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

## WATERWAY: CUMBERLAND RIVER

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)		
		To Barge	from Storage	From Barge	to Storage	Open	Covered	Acres
<hr/>								
<div>CEMENT</div> <hr/>								
21	600			350			54,000	
18	200			100			5,800	
26	160			200			4,200	
Avg.	320			217			21,333	
Tot.	960						64,000	
<hr/>								
<div>MISCELLANEOUS ORES</div> <hr/>								
16	550			300			15,000	
Avg.	550			300			15,000	
Tot.	550						15,000	
<hr/>								
<div>SAND, STONE AND GRAVEL</div> <hr/>								
36	360			750		100,000		
44	200			325		26,000		
Avg.	280			538		63,000		
Tot.	560					126,000		
<hr/>								
<div>SCRAP METAL</div> <hr/>								
34	260	350						30.0
Avg.	260	350						30
Tot.	260							30.0
<hr/>								
<div>SCRAP METAL</div> <hr/>								
33	300	75				1,400		
Avg.	300	75				1,400		
Tot.	300					1,400		

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

## WATERWAY: CUMBERLAND RIVER

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres
<u>MISCELLANEOUS BULK CARGO</u>								
47	1,570	1,500	750					5.0
42	800							10.0
49	690	1,500	1,500			1,000,000		
38	195			200		20,000		
23	100							7.0
Avg.	671	1,500	1,125	200		510,000		7
Tot.	3,355					1,020,000		22.0
-----								
<u>ALL FACILITIES</u>								
Avg.	460	856	1,125	318		229,480	19,750	13.0
Tot.	5,985					1,147,400	79,000	52.0



Date: 9/02/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

## WATERWAY: GREEN RIVER

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr) To Barge from Storage Truck	Unloading rate (Tons/Hr) From Barge to Storage Truck	Rail	Total Storage Capy (tons)	Open	Covered	Acres
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MISCELLANEOUS ORES

66	1,440						51,000	
Avg.	1,440						51,000	
Tot.	1,440						51,000	

SAND, STONE, GRAVEL, LIME

67	2,625	400			150,000			
86	1,365	1,000					24,000	
Avg.	1,995	700			150,000		24,000	
Tot.	3,990				150,000		24,000	

ALL FACILITIES

Avg.	1,810	700			150,000		37,500	
Tot.	5,430				150,000		75,000	

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SUMMARY OF COMMODITY HANDLING TERMINALS ON UNITED  
STATES INLAND WATERWAYS (U) NAVIGATION DATA CENTER FORT  
BELVOIR VA OCT 88 NDC-88-P-1

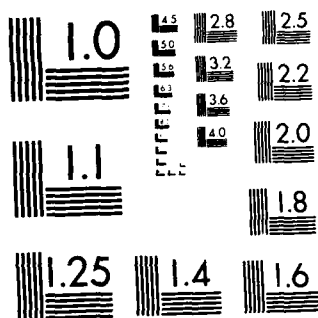
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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: GULF INTRACOASTAL WATERWAY (EAST END TO MILE 5W)

Ref. Berth No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)			Acres
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered		
<u>CEMENT</u>									
92	600							58,500	
Avg.	600							58,500	
Tot.	600							58,500	
<u>SAND, STONE AND GRAVEL</u>									
80	1,300			100				75,000	
Avg.	1,300			100				75,000	
Tot.	1,300							75,000	
<u>SCRAP METAL</u>									
28	451								4.0
Avg.	451								4
Tot.	451								4.0
<u>MISCELLANEOUS BULK CARGO</u>									
51	1,808	3,000		1,200				30,000	5.4
Avg.	1,808	3,000		1,200				30,000	5
Tot.	1,808							30,000	5.4
<u>ALL FACILITIES</u>									
Avg.	1,040	3,000		650				75,000 44,250	4.7
Tot.	4,159							75,000 88,500	9.4

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

## WATERWAY: KANAWHA RIVER

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)			
		To Barge	from Storage Truck	From Barge	to Storage Truck	Rail	Open	Covered	Acres
<hr/>									
<div>CEMENT</div> <hr/>									
37	276			120				11,700	
Avg.	276			120				11,700	
Tot.	276							11,700	
<hr/>									
<div>SAND, STONE AND GRAVEL</div> <hr/>									
39	800			250			20,000		
25	750			200			60,000		
51	560			200			10,000		
24	525			400			20,000		
99	525			250			20,000		
28	420			200			21,500		40.0
54	400			300			13,000		
85	350			300			30,000		
91	300			300			60,000		
27	200			175			20,000		
20	200			150			10,000		
42	195			300			43,000		
84	195								30.0
73	175				375		18,000		
Avg.	400			252	375		26,577		35
Tot.	5,595						345,500		70.0
<hr/>									
<div>SCRAP METAL</div> <hr/>									
97	195								23.0
61	195								15.0
Avg.	195								19
Tot.	390								38.0
<hr/>									
<div>ALL FACILITIES</div> <hr/>									
Avg.	368			242	375		26,577	11,700	27.0
Tot.	6,261						345,500	11,700	108.0

Date: 10/07/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: KASKASKIA RIVER

Ref. Berth No.	Length (ft)	Loading rate (Tons/Hr) To Barge from Storage Truck Rail		Unloading rate (Tons/Hr) From Barge to Storage Truck Rail		Total Storage Capy (tons) Open Covered Acres		
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MISCELLANEOUS BULK CARGO

0	195		300					5.0
Avg.	195		300					5
Tot.	195							5.0

ALL FACILITIES

Avg.	195		300					5.0
Tot.	195							5.0

Date: 8/30/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: KENTUCKY RIVER

Ref. Berth No.	Berth Length (ft)	Loading rate (Tons/Hr) To Barge from Storage Truck Rail	Unloading rate (Tons/Hr) From Barge to Storage Truck Rail	Total Storage Capy (tons) Open Covered	Acres
<u>SAND, STONE AND GRAVEL</u>					
4	135		300	5,000	
2	700				20.0
5	200				4.0
Avg.	345		300	5,000	12
Tot.	1,035			5,000	24.0

<u>ALL FACILITIES</u>					
Avg.	345		300	5,000	12.0
Tot.	1,035			5,000	24.0

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: ILLINOIS RIVER (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)			Total Storage Capy (tons)			Acres
		To Barge	from Storage Truck	From Barge	to Storage Truck	Rail	Open	Covered		

CEMENT

88	800								5,500	
162	750								21,400	
78	480								30,000	
130	310								4,100	
71	222								1,880	
21	217								25,500	
Avg.	463								14,730	
Tot.	2,779								88,380	

FEED, MEAL, FLOUR, ETC.

82	430								11,000	
24	360		275						33,500	
196									15,500	
Avg.	395		275						20,000	
Tot.	790								60,000	

FERTILIZER/FERTILIZER COMPONENTS

31	1,200								22,500	
94	1,070								20,000	
4	1,040	1,200							60,000	
92	875	1,000	1,000	1,000	800	800	800		80,000	
131	800				150	150	150		80,000	
196	720								30,000	
82	430								11,000	
136	400								20,000	
135	200								20,000	
95	170				100				16,000	
Avg.	691	1,100	1,000	1,000	344	517	517		35,950	
Tot.	6,905								359,500	

MISCELLANEOUS ORES

185	730								5.0	
194	720								7.0	
138	500								6.0	
148	214				200				1.5	
Avg.	541				200				5	
Tot.	2,164								19.5	



Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: ILLINOIS RIVER (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)			Total Storage Capy (tons)		
		To Storage	Truck from Barge	From Storage	Truck to Barge	Rail	Open	Covered	Acres
<hr/>									
<hr/>									
<b>SALT</b>									
61	2,400						100,000		
103	2,300								6.0
161	1,500						125,000		
4	1,040	1,200		600	600	600	35,000		
186	1,020			400			200,000	19,000	
131	800			150			12,000		
166	690			250			50,000	5,000	
16	532							25,000	
22	518			200			7,000	8,000	
126	500						25,000		
6	500						1,000,000		
34	425			200			16,500		
Avg.	1,019	1,200		300	600	600	157,050	14,250	6

<b>SAND, STONE AND GRAVEL</b>									
120	10,600	700							47.0
61	2,400						100,000		
103	2,300								6.0
199	1,500								7.0
112	1,400		500				20,000		
14	1,125			240			30,000	25,000	
94	1,070			70				15,000	
58	1,000								1.0
29	906			240			19,000		
41	872						100,000		
194	720								1.0
119	660								
51	610			400			80,000		
126	500						25,000		
28	465			200			20,000		
84	400	180							
43	350						50,000		
69	347								2.0
107	300	1,100	1,100						
40	300						10,000		
60	195						40,000		
Avg.	1,334	700	640	800	230		44,909	20,000	11
Tot.	28,020						494,000	40,000	64.0

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: ILLINOIS RIVER (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)			Total Storage Capy (tons)				
		To Barge	from Storage	Truck	Rail	From Barge to Storage	Truck	Rail	Open	Covered	Acres
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SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

Date: 10/19/88

WATERWAY: ILLINOIS RIVER (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

Ref. Berth No.	Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres

ALL FACILITIES

Avg.	901	896	822	900	285	479	517	87,133	23,792	9.1
Tot.	75,677							2,614,000	642,380	244.5

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY:

LOWER MISSISSIPPI RIVER (BATON ROUGE TO CAIRO)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres
<hr/>								
<div>CEMENT</div> <hr/>								
11	355						8,100	
43	175						2,100	
<hr/>								
Avg.	265						5,100	
<hr/>								
Tot.	530						10,200	

<b>FERTILIZER</b>								
17	5,280							
105	1,080	300		300			30,000	
95	780			300			10,000	
126	700						12,000	
1	390	200		200			30,000	
64	281						24,000	
86	135						5,800	
40	120						14,000	
61	100						50,000	
Avg.	985	250		267			21,975	
Tot.	8,866						175,800	

<b>SAND, GRAVEL AND STONE</b>								
59	1,000						500,000	
89	450							5.4
99	250						200,000	
60	110						50,000	
38	100							5.4
72	100						120,000	
Avg.	335						217,500	5
Tot.	2,010						870,000	10.8

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY:

LOWER MISSISSIPPI RIVER (BATON ROUGE TO CAIRO)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Acres
		To Barge	from Storage Truck	From Barge	to Storage Truck	Open	Covered	

MISCELLANEOUS BULK CARGO

91	1,740			200		74,000	
109	600	170				15,000	
89	600						15.0
99	530						
110	500					40,000	
2	495					560,000	
70	380						1.6
47	360						15.0
116	314					75,000	
56	300						15.0
66	300	400		400		21,000	
64	281					50,000	15.0
54	260			140		150,000	
29	250						15.0
85	250						.5
113	250						6.0
27	195			200			24.0
48	160						15.0
46	100						
Avg.	414	285		235		123,125	12
Tot.	7,865					985,000	122.1

ALL FACILITIES

Avg.	535	268		249		92,773	11.1
Tot.	19,271					2041000	132.9

Date: 10/17/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO TO MISSOURI RIVER)

Ref. Borth No.	Length (ft)	Loading rate (Tons/Hr) To Barge from Storage Truck Rail	Unloading rate (Tons/Hr) From Barge to Storage Truck Rail	Total Storage Capy (tons) Open Covered Acres
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CEMENT

166	1,000	1,000		18,000
149	780	400		37,000
81	390		60	100,000
111	330		250	20,500
91	180		125	10,500
120	150		140	10,400
Avg.	472	700	144	32,733
Tot.	2,830			196,400

FEED, MEAL, FLOUR, ETC.

124	165		23	500
Avg.	165		23	500
Tot.	165			500

FERTILIZER/FERTILIZER COMPONENTS

30	400	275		40,000
135	395		180	40,000
Avg.	398	275	180	40,000
Tot.	795			80,000

SALT

18	600			10,000	6,500	
96	195		150		10,000	
126			400			
Avg.	398		150	400	10,000	8,250
Tot.	795				10,000	16,500

Date: 10/17/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO TO MISSOURI RIVER)

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)				
		To Barge from Storage	Truck Rail	From Barge to Storage	Truck Rail	Open	Covered	Acres		
<u>SAND, STONE AND GRAVEL</u>										
159	640	300		300		60,000				
146	550	750								
28	380			250		80,000				
148	200			200		36,000				
126	195			400		23,000				
96	195			150		10,000				
145	195									
139	195									
153	195		450							
157	195									
90	195			400		100,000				
138	130			150		15,000				
Avg.	272	525	450	264		46,286				
Tot.	3,265					324,000				
-----										
<u>SUGAR</u>										
110	310			275			12,000			
Avg.	310			275			12,000			
Tot.	310						12,000			
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<u>MISCELLANEOUS BULK CARGO</u>										
5	1,500					10,000		4.0		
89	880						21,000	12.0		
88	875									
31	825									
18	600			500	500					
33	600		750							
167	590									
152	480	1,500						15.0		
135	395									
38	200	300								
22	195					140,000				
32	195		350	350	350	350				
Avg.	611	300	925	550	500	425	350	10		
Tot.	7,335					150,000	21,000	31.0		
-----										
<u>ALL FACILITIES</u>										
Avg.	430	504	925	517	222	417	350	48,400	25,108	10.3
Tot.	15,495							484,000	326,400	31.0

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		Acres
		To Barge from Storage	Truck Rail	From Barge to Storage	Truck Rail	Open	Covered	
<hr/>								
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<b>CEMENT</b>								
208	919					100,000		
254	720	1,200				64,500		
71	260					5,100		
69	250	1,500				84,000		
195	245			160		10,500		
Avg.	479	1,350		160		52,820		
Tot.	2,394					264,100		
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<b>FEED, MEAL, FLOUR, ETC.</b>								
4	692	500						
179	450			150				
Avg.	571	500		150				
Tot.	1,142							
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<b>FERTILIZER</b>								
232	2,000			500		200,000		
31	1,200					50,000		
13	1,000			175				
247	880			450				
23	600					200,000		
138	600							
20	400			200		50,000		
178	285			150		41,000		
224	200			150		21,500		
137	200			350		200,000		
160	195					50,000		
119	195					13,000		
Avg.	646			282		91,722		
Tot.	7,755					825,500		
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<b>SCRAP METAL</b>								
99	1,040							13.5
56	400							
240	237					6,000		10.0
250	195					4,200		
Avg.	468					5,100		12
Tot.	1,872					10,200		23.5



Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Storage	from Barge	From Storage	to Barge	Open	Covered	Acres
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<u>SAND, GRAVEL AND STONE</u>								
55	1,600	1,000						
67	1,280			200		40,000		
56	1,200	400				1,000,000		
59	840			225		50,000		
200	800					30,000		
72	675			150		350,000		
197	450					75,000		
115	400			100		200,000		
207	400					4,500		
187	325					75,000		
6	250					1,500		
219	240	300						5.0
65	195	200				60,000		
190	120					60,000		
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Avg.	627	475		169		162,167		5
<hr/>								
Tot.	8,775					1,946,000		5.0

<b>MISCELLANEOUS BULK CARGO</b>								
237	8,000			200		150,000		
132	4,400							25.0
204	1,500					100,000		
128	1,400	750					250,000	
32	1,100						60,000	
167	900			150		90,000		
140	800			150				
200	800					30,000		
218	510			200				
17	500			200		130,000	30,400	
3	500							
63	500			450			32,500	
211	450			120		60,000		
34	340							
233	300						100,000	
36	300					100,000		
148	300			300		100,000	20,000	
155	225					65,000		
199	200						5,000	
186	200						6,000	
26	200	300		300		1,000,000	13,500	
Avg.	1,115	525		230		182,500	57,489	25
Tot.	23,425					1,825,000	517,400	25.0

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

Ref. Berth	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
No. Length (ft)	To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres

ALL FACILITIES

Avg.	782	683		229	157,550	69,870	13.4
Tot.	45,363				3,781,200	1607000	53.5

Date: 10/17/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

## WATERWAY: MISSOURI RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres
<b><u>FERTILIZER/FERTILIZER COMPONENTS</u></b>								
51	1,200			150			60,000	
75	590			150			10,000	
93	400			200			33,000	
86	360			85			25,000	
19	300						11,000	
92	235			100			49,200	
69	195						10,000	
32	180							
90	180							
63	36				100			
Avg.	368			137	100		28,314	
Tot.	3,676						198,200	

<b><u>SAND, STONE AND GRAVEL</u></b>								
3	800			300		30,000		
6	500					80,000		
1	475			200		200,000		
7	250			200		20,000		
13	200			200		15,000		
5	200					80,000		
2	200			250		30,000		
9	195			150		15,000		
18	195			200		65,000		
15	175			600		80,000		
12	175			200		15,000		
20	175						30,000	
39	150						100,000	
16	150			200		20,000		
68	100					65,000		
31	100					20,000		
24	100					15,000		
30	80					65,000		
21	15			200		31,000		
Avg.	223			245		57,273	43,250	
Tot.	4,235					630,000	346,000	

Date: 10/17/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

## WATERWAY: MISSOURI RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Barge	from Storage	From Barge	to Storage	Open	Covered	Acres
<hr/>								
<u>CEMENT</u>								
34	400	200				57,400		
14	325			50		800		
94	300			170		80,000		
Avg.	342	200		110		46,067		
Tot.	1,025					138,200		
<hr/>								
<u>MISCELLANEOUS BULK CARGO</u>								
103	1,109	400				107,400		
100	900			200		130,000		
66	697					200		
52	600							
38	480							5.0
41	400			350		125,000		
101	348	300				10,000		
14	325			50		4,000		4.0
40	300	200				3,000		
19	300					15,000		
35	195					20,000		
99	195					50,000		
89	150		100					
Avg.	461	300	100	200		46,460		5
Tot.	5,999					464,600		9.0
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<u>ALL FACILITIES</u>								
Avg.	332	275	100	200	100	57,273	40,964	4.5
Tot.	14,935					630,000	1147000	9.0

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: MONONGAHELA RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Barge	from Storage Truck	From Barge	to Storage Truck	Open	Covered	Acres
<hr/>								
<div>CEMENT</div> <hr/>								
154	225						5,800	
Avg.	225						5,800	
Tot.	225						5,800	
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<div>FERTILIZER</div> <hr/>								
158	625	1,800					4,200	
159	525							
160	170							
Avg.	440	1,800					4,200	
Tot.	1,320						4,200	
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<div>SAND, GRAVEL AND STONE</div> <hr/>								
63	950	100				700		
119	400	40				4,000		
74	350					1,400		
83	350					5,500		
108	200					600		
97	180	80				152,300		
Avg.	405	73				27,417		
Tot.	2,430					164,500		
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<div>SCRAP METAL</div> <hr/>								
184	1,050					1,500,000		
179	860							3.0
204	450					150,000		6.0
198	380					150,000		
98	370							16.0
99	300							3.5
Avg.	568					600,000		7
Tot.	3,410					1,800,000		28.5

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: MONONGAHELA RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres
<u>MISCELLANEOUS BULK CARGO</u>								
206	1,350	200				9,000		10.0
157	1,050							
61	600	250					1,600	
106	600							300.0
85	525							20.0
101	390					5,000		7.0
87	375							10.0
116	350							6.0
182	350							4.0
183	350	150						12.0
196	250					25,000		
199	200						30,000	
133	175					20,000		
155	175							1.7
Avg.	481	200				14,750	15,800	41
Tot.	6,740					59,000	31,600	370.7
<u>ALL FACILITIES</u>								
Avg.	471	374				155,654	10,400	30.7
Tot.	14,125					2,023,500	41,600	399.2

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)		
		To Storage	Barge from Truck Rail	From Storage	Barge to Truck Rail	Open	Covered	Acres
<hr/>								
<div>CEMENT</div> <hr/>								
236	1,500			200			65,000	
130	325			300			12,000	
253	260	300					62,000	
120	205			100			600	
98	200			200			4,500	
26	160			200			4,200	
Avg.	442	300		200			24,717	
Tot.	2,650						148,300	
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<div>FERTILIZER/FERTILIZER COMPONENTS</div> <hr/>								
31	1,000			350			20,000	
136	800			350			60,000	
60	800	80					16,500	
207	300			400			60,000	
153	300			250			88,000	
180	150			125			15,000	
Avg.	558	80		295			43,250	
Tot.	3,350						259,500	
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<div>MISCELLANEOUS ORES</div> <hr/>								
214	2,640			300			17,000	
188	1,960			190			65,000	
112	1,400			170			29,600	
48	1,190							
11	1,050			200				3.0
32	825							7.0
120	800	500				150,000		
116	780			250			4,000	
186	650			300				3.0
52	380		250					
176	380					24,000		
275	200			100		10,000		2.0
230	200	500						
232	200	100						
114	195				100	50,000		
233	150							
225	100			400				
Avg.	771	500	300	239	100	58,500	28,900	4
Tot.	13,100					234,000	115,600	15.0

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres
<u>SAND, STONE AND GRAVEL</u>								
129	5,800			200			21,000	
121	2,745	1,500				67,300		
7	1,950			1,000			80,500	
155	1,745			1,500		200,000		
174	1,600	400				1,000,000		
33	1,570	1,400				400,000		
236	1,500			1,500			65,000	
158	1,400	1,500				200,000		
166	1,380	800				100,000		
86	1,365			1,000			24,000	
4	1,332			250				12.0
238	1,225	900				500,000		
208	1,000	400				100,000		
167	1,000	150				75,000		
40	1,000	1,000					62,000	
41	1,000			150		50,000		
229	1,000	3,000				115,000		
51	1,000			500		100,000		
246	895	500				20,000		
13	890			250		50,000		
13	890			600		13,100		
76	875	500			250	100,000		
67	875			400		150,000		
1	850	450				200,000		
253	835			300			100,000	
15	700				250			9.0
119	676			500		300,000		
197	650			250		40,000		
117	600							12.0
131	600					600,000		
237	600			200		50,000		
169	600	150						2.0
135	600			250		20,000		
224	600			500		500,000		
18	520			200				
149	480			250		60,225	1,550	
118	470			475		180,000		
194	439			500		100,000		
205	430			150		100,000		
58	400			100		750		
121	390			200				2.0
116	388	375				25,000		
37	350					3,000		
143	340			300		60,000		
256	330			160			80	10.0
269	300			100		8,000		
5	300			250				
202	300			200		100,000		

(Continued on following page)



SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

## WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)			
		To Barge from Storage	Truck Rail	From Barge to Storage	Truck Rail	Open	Covered	Acres	
33	300	75				1,400			
56	275			200			4,800		
150	250			250		1,000,000			
268	240			100		8,000			
151	200			150		15,000			
105	200		110			10,000			
106	200		110			8,000			
186	200			300		115,000			
63	200			200		90,000			
150	200			600		100,000			
113	200			500		130,000			
231	200	500							
225	200			500		20,000			
24	195			150			1,100		
173	195	1,300							
114	195	500				150,000			
249	175			300				5.0	
218	175			150		20,000			
115	175			125		30,000			
109	175			250		10,000			
106	175			250		10,000			
180	150			100		7,000			
185	150			150			1,800		
159	150							.5	
134	135			300		200,000			
96	110				500	50,000			
177	100			250		10,000			
227	100			40			2,700		
227	100			500		20,000			
204	100							1.0	
61	100			400		25,000			
172	100	1,100				1,000,000			
190	100			500		50,000			
95	100			500		50,000			
Avg.	642	835	767	110	358	333	148,250	30,378	6
Tot.	52,605						8,746,775	364,530	53.5

## SALT

153	300	250					8,000	2.0
Avg.	300	250					8,000	2
Tot.	300						8,000	2.0

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)  
WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)			Acres	
		To Barge	from Storage Truck	From Barge	to Storage Truck	Open	Covered			
<hr/> <b>SCRAP METAL</b> <hr/>										
126	525								13.0	
273	525								5.0	
198	200		50			3,000				
49	175					40,000				
Avg.	356		50			21,500			9	
Tot.	1,425					43,000			18.0	
<hr/>										
<b>MISCELLANEOUS BULK CARGO</b> <hr/>										
259	1,200					20			6.0	
140	1,160					10,000				
177	1,000			300					100.0	
59	950		500		250	10,000				
234	900			200			3,000		15.0	
178	800			125					8.0	
15	750								2.5	
99	745				550					
30	700			175					8.0	
17	700								8.0	
139	695			400		125,000				
184	650			150		3,000				
89	585				250	250	4,200		5.0	
263	550								6.0	
39	525			150		250,000				
139	500				150					
174	400	1,000				300,000				
146	400			400	150				5.0	
164	395				150		40,000		7.0	
149	390		500				12,000			
93	300								100.0	
153	300			250		1,000,000				
98	250	400							25.0	
228	200			150						
148	200			500					25.0	
127	195	200		200					35.0	
171	195				150		40,000			
88	195			250			10,000			
195	175								2.0	
146	135						104			
115	120	250								
169	120			125			10,000			
229	115			150		50,000			8.0	
140	100			700					10.0	
Avg.	488	470	500	400	255	236	250	194,224	14,913	21
Tot.	16,595							1,748,020	119,304	375.5

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

Ref. Berth		Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)		
No.	Length (ft)	To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres

ALL FACILITIES

Avg.	600	657	567	218	316	250	250	145,565	27,439	13.6
Tot.	90,025							10,771,795	1015234	464.0

Date: 10/03/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: TENNESSEE-TOMBIGEE WATERWAY

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Storage	Barge from Truck	From Barge to Storage	Truck Rail	Open	Covered	Acres

FERTILIZER/FERTILIZER COMPONENTS

5	1,100							
16	210			250				
14	200			250				
Avg.	503			250				
Tot.	1,510							

SAND, STONE AND GRAVEL

19	400	150						
16	210			250				
14	200			250				
Avg.	270	150		250				
Tot.	810							

MISCELLANEOUS BULK CARGO

20	7,800							
6	1,000							
3	1,000							2.0
9	950							
8	866							
18	670							
2	414							4.0
17	400							
11	200							
Avg.	1,478							3
Tot.	13,300							6.0

ALL FACILITIES

Avg.	1,041	150		250				3.0
Tot.	15,620							6.0

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: TENNESSEE RIVER

Ref. Berth		Loading rate		Unloading rate		Total Storage Capy		
No.	Length	(Bu/Hr)		(Bu/Hr)		(tons)		
	(ft)	To Barge from	Rail	From Barge to	Rail	Open	Covered	Acres
		Storage Truck		Storage Truck				

ALL FACILITIES

Avg.	499	750	175	1,050	268	208	549,461	10,364	7.6
Tot.	23,931						12,637,600	93,280	76.2

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

## WATERWAY: TENNESSEE RIVER

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Barge from Storage	Truck Rail	From Barge to Storage	Truck Rail	Open	Covered	Acres
<hr/>								
<u>SAND, GRAVEL AND STONE</u>								
39	1,345	250		175		6,000,000		
140	880			200		10,000		
36	770	100		250				
104	600			125		15,000		
35	600	100				6,000,000		
149	595	125		200		100,000		
58	300			150				8.0
17	195				175	10,000		
181	195							
127	160					2,000		
57	135			250				8.0
72	70			100		50,000		
Avg.	487	144		182	175	1,523,375		8
Tot.	5,845					12,187,000		16.0

<u>MISCELLANEOUS BULK CARGO</u>								
180	1,850		600					30.0
95	1,800							7.0
139	1,200	1,000				35,000		
186	1,063			300	300	20,000		
70	700		1,500					
10	700	500				5,000	6,000	
185	650					20,000		
136	560		300					1.4
87	530							1.3
69	500					9,000	11,500	
69	500						9,500	
142	490					15,000		
44	480							
71	400							7.0
52	400				175			
134	360							
155	300							
52	300				200			8.0
13	175			300		120,000	9,000	
184	150					4,000		
56	135			200				4.0
154	125			1,500		10,000		
Avg.	608	750	300	1,050	575	26,444	9,000	8
Tot.	13,368					238,000	36,000	58.7

### SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES (excluding coal)

Ref. No.	Berth Length (ft)	Loading rate (Bu/Hr)		Unloading rate (Bu/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres

141	338	200	6,000
88	285	70	5,280
9	250	200	12,000
Avg.	291	157	7,760
Tot.	873		23,280

43	520	125		30,000	
97	195		150		
13	175	300			9,000
Avg.	297	213	150	30,000	9,000
Tot.	890			30,000	9,000

47	380	150		45,000	
125	310	300			25,000
28	280		400		
172	195		150	100,000	
Avg.	291	225	275	72,500	25,000
Tot.	1,165			145,000	25,000

34	700	175		12,600
78	415		150	20,000
Avg.	558	175	150	16,300
Tot.	1,115			32,600

89	480		1.5
147	195	5,000	
Avg.	338	5,000	2
Tot.	675	5,000	1.5

Date: 9/02/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

## WATERWAY: OUACHITA RIVER

Ref. No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres

MISCELLANEOUS (UNSPECIFIED)

18	250							39,000
1	200							5,500
Avg.	225							22,250
Tot.	450							44,500

ALL FACILITIES

Avg.	225							22,250
Tot.	450							44,500



Date: 9/02/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES  
(excluding coal)

WATERWAY: WHITE RIVER

Ref. Berth No.	Berth Length (ft)	Loading rate (Tons/Hr)		Unloading rate (Tons/Hr)		Total Storage Capy (tons)		
		To Barge from Storage Truck	Rail	From Barge to Storage Truck	Rail	Open	Covered	Acres

FERTILIZER/FERTILIZER COMPONENTS

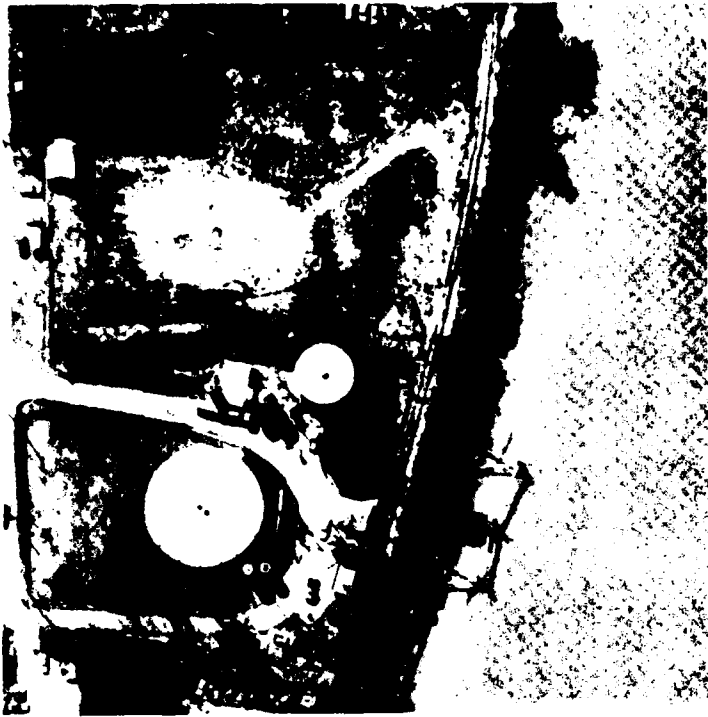
7	200			100			20,000	
4	130			100			4,000	
Avg.	165			100			12,000	
Tot.	330						24,000	

SAND, GRAVEL AND STONE

13	160						150,000	
Avg.	160						150,000	
Tot.	160						150,000	

ALL FACILITIES

Avg.	163			100			150,000	12,000
Tot.	490						150,000	24,000



# **LIQUID BULK HANDLING TERMINALS**

This category is further subdivided into 8 subcategories, each being arranged according to descending tankage: Ammonia (including anhydrous and aqua ammonia); Alcohol; Chemicals/Petrochemicals; Fertilizer; Molasses; Sludge; Sulphur; Vegetable/Animal Oils; and Miscellaneous (unspecified, liquid salt, sugar, tung oil, creosote, etc.).

Tankages of miscellaneous items are given in gallons and those of specific items in tons, thus rendering a grand summary of all liquid bulk facilities meaningless.

Date: 9/30/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ALABAMA RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>CHEMICALS/PETROCHEMICALS</u>				
114	650	R	999,600	GALLONS
AVERAGE:	650		999,600	GALLONS
TOTAL	650		999,600	GALLONS

Date: 9/30/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ALLEGHENY RIVER

REF. NO.	BERTHING RECEIPT LENGTH (FT)	AND/OR SHIPMENT	TANKAGE	UNITS
<u>CHEMICALS/PETROCHEMICALS</u>				
228	350	R/S	4,500,300	GALLONS
214	200	R	3,507,000	GALLONS
232	300	R	275,100	GALLONS
AVERAGE:	283		2,760,800	GALLONS
TOTAL	850		8,282,400	GALLONS
<u>VEGETABLE/ANIMAL OILS</u>				
245	175	S	2,900	TONS
AVERAGE:	175		2,900	TONS
TOTAL	175		2,900	TONS

Date: 10/04/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: APALACHICOLA, CHATTAHOOCHEE, AND FLINT RIVERS

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>AMMONIA</u>				
10	900	R	50,000	TONS
AVERAGE:	900		50,000	TONS
TOTAL	900		50,000	TONS
<u>CHEMICALS/PETROCHEMICALS</u>				
13	40	R	9,996,000	GALLONS
12	150	R	6,132,000	GALLONS
24	402	R	4,998,000	GALLONS
10	900	R	3,250,800	GALLONS
18	516	R	1,499,400	GALLONS
AVERAGE:	402		5,175,240	GALLONS
TOTAL	2,008		25,876,200	GALLONS
<u>FERTILIZER</u>				
19	354	S	10,995	TONS
10	900	R/S	6,000	TONS
AVERAGE:	627		8,498	TONS
TOTAL	1,254		16,995	TONS
<u>MOLASSES</u>				
23	586	R	499,800	GALLONS
AVERAGE:	586		499,800	GALLONS
TOTAL	586		499,800	GALLONS
<u>ALL FACILITIES</u>				
AVERAGE:	528			
TOTAL:	4,748			

Date: 10/11/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR - ARKANSAS RIVER NAVIGATION SYSTEM)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>FERTILIZER</u>				
41	200		10,400	TONS
22	250		5,500	TONS
14	540		4,000	TONS
75	700		920	TONS
80	340			
AVERAGE:	406		5,205	
TOTAL	2,030		20,820	
<u>MOLASSES</u>				
33	830		6,500	TONS
75	700		1,500	TONS
AVERAGE:	765		4,000	TONS
TOTAL	1,530		8,000	TONS
<u>MISCELLANEOUS (UNSPECIFIED)</u>				
21	300		2,100,000	GALLONS
41	200		1,050,000	GALLONS
AVERAGE:	250		1,575,000	GALLONS
TOTAL	500		3,150,000	GALLONS
<u>ALL FACILITIES</u>				
AVERAGE:	451			
TOTAL:	4,060			

Date: 10/03/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>CHEMICALS/PETROCHEMICALS</u>				
69	330	R	5,544,000	GALLONS
60	700	R	3,100,000	GALLONS
67	200	R	1,995,000	GALLONS
59	200	R	1,505,000	GALLONS
44	400	R/S	1,250,000	GALLONS
46	200	S	570,000	GALLONS
26	400	S	420,000	GALLONS
28	200	R	280,000	GALLONS
36	200	S	191,800	GALLONS
AVERAGE:	314		1,650,644	GALLONS
TOTAL	2,830		14,855,800	GALLONS

Date: 10/14/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: COLUMBIA-SNAKE RIVER SYSTEM (ABOVE THE DALLES - MILE 191.5)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>AMMONIA</u>				
120	480	R/S	51,600	TONS
118	110	S	3,900	TONS
AVERAGE:	295		27,750	TONS
TOTAL	590		55,500	TONS
<u>FERTILIZER</u>				
133	135	R/S	78,800	TONS
118	110	S	33,000	TONS
114	300	R/S	10,200	TONS
141	204	R	4,100	TONS
142	375	R	2,800	TONS
AVERAGE:	225		25,780	TONS
TOTAL	1,124		128,900	TONS
<u>MOLASSES</u>				
133	135	R/S	4,000	TONS
AVERAGE:	135		4,000	TONS
TOTAL	135		4,000	TONS
<u>ALL FACILITIES</u>				
AVERAGE:	231			
TOTAL:	1,849			



Date: 9/29/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: CUMBERLAND RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>CHEMICALS/PETROCHEMICALS</u>				
29	330	R	15,000,000	GALLONS
17	300	R	1,147,000	GALLONS
16	550	S	14,300	GALLONS
AVERAGE:	393		5,387,100	GALLONS
TOTAL	1,180		16,161,300	GALLONS

Date: 10/13/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<b>ALCOHOL</b>				
125	400	S	4,000,000	GALLONS
128	200	R	3,500,000	GALLONS
AVERAGE:	300		3,750,000	GALLONS
TOTAL	600		7,500,000	GALLONS
<b>AMMONIA</b>				
30	400	R	60,000	TONS
96	440	R	42,500	TONS
137	600	R	40,000	TONS
58	470	R	30,000	TONS
83	540	R	25,000	TONS
119	200	R	20,000	TONS
7	320	R	20,000	TONS
81	265	R	20,000	TONS
114	400	R	20,000	TONS
94	1,070	S	10,000	TONS
AVERAGE:	471		28,750	TONS
TOTAL	4,705		287,500	TONS

Date: 10/13/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<b>FERTILIZER</b>				
7	320	R	39,000	TONS
17	320	R	34,600	TONS
150C	275	R	25,450	TONS
114	400	R	23,000	TONS
143	1,000	R	23,000	TONS
99	120	R/S	22,000	TONS
29	200	R	21,000	TONS
29	200	R	21,000	TONS
108	285	R	20,900	TONS
128	200	R	16,500	TONS
92	875	R	16,500	TONS
96	440	R	16,000	TONS
18	250	R	15,000	TONS
85	200	R	11,000	TONS
86	400	R	11,000	TONS
129	315	R	5,190	TONS
147C	600	S	1,700	TONS
AVERAGE:	376		18,991	TONS
TOTAL	6,400		322,840	TONS
<b>MOLASSES</b>				
195C	365	R	22,150	TONS
168C	1,000	R	7,075	TONS
111	120	R	3,600	TONS
150C	275	X	1,610	TON
AVERAGE:	440		8,609	TON
TOTAL	1,760		34,435	TON
<b>SLUDGE</b>				
139	856	X	1,000,000	GALLONS
AVERAGE:	856		1,000,000	GALLONS
TOTAL	856		1,000,000	GALLONS

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

Date: 10/13/88

WATERWAY: ILLINOIS WATERWAY (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

REF. NO.	BERTHING RECEIPT LENGTH AND/OR (FT) SHIPMENT	TANKAGE	UNITS
<u>CHEMICALS/PETROCHEMICALS</u>			
83	540 R	8,800,000	GALLONS
65	750 R	8,000,000	GALLONS
83C	920 R	7,282,640	GALLONS
133	200 R	7,000,000	GALLONS
69	567 R	6,720,000	GALLONS
97C	975 R	5,700,000	GALLONS
110	175 R	5,240,000	GALLONS
86C	195 R	5,050,000	GALLONS
70	260 R	5,000,000	GALLONS
86	400 S	4,750,000	GALLONS
100C	2,740 R/S	4,000,000	GALLONS
87C	242 R	3,818,000	GALLONS
98	160 R	3,785,000	GALLONS
72	125 R	3,700,000	GALLONS
98C	600 R	3,000,000	GALLONS
193C	320 R	2,288,000	GALLONS
67	195 R	2,100,000	GALLONS
151C	150 R/S	1,950,000	GALLONS
202C	150 R	1,895,000	GALLONS
73	880 R	1,690,000	GALLONS
63	340 X	1,500,000	GALLONS
62C	810 R/S	1,000,000	GALLONS
8	140 X	1,000,000	GALLONS
94	1,070 S	813,000	GALLONS
71	1,270 R	630,000	GALLONS
143	1,000 R	500,000	GALLONS
24C	680 R	390,000	GALLONS
147C	600 S	44,200	GALLONS
AVERAGE:	588	3,487,351	GALLONS
TOTAL	16,454	97,645,840	GALLONS

Date: 10/13/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>SULPHUR</u>				
94	1,070	S	8,000	TONS
AVERAGE:	1,070		8,000	TONS
TOTAL	1,070		8,000	TONS
<u>VEGETABLE/ANIMAL OILS</u>				
166C	690	R	86,130	TONS
68	195	R	7,500	TONS
25C	182	R	4,350	TONS
19C	297	R	2,900	TONS
5	400	R	2,175	TONS
18	250	S	1,800	TONS
AVERAGE:	336		17,476	TONS
TOTAL	2,014		104,855	TONS
<u>MISCELLANEOUS (UNSPECIFIED)</u>				
75C	760	R/S	43,840,000	GALLONS
164C	1,220	R/S	25,628,400	GALLONS
92C	650	R/S	5,000,000	GALLONS
80C	850	R/S	3,000,000	GALLONS
76C	285	X	840,000	GALLONS
24	360	S	800,000	GALLONS
59C	920	R	500,000	GALLONS
AVERAGE:	721		11,372,629	GALLONS
TOTAL	5,045		79,608,400	GALLONS
<u>ALL FACILITIES</u>				
AVERAGE:	512			
TOTAL:	38,904			

Date: 10/14/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: KANAWHA RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>AMMONIA</u>				
71	510	R	20,000	TONS
AVERAGE:	510		20,000	TONS
TOTAL	510		20,000	TONS
<u>CHEMICALS/PETROCHEMICALS</u>				
87	385	R/S	60,000,000	GALLONS
82	585	R	17,400,000	GALLONS
69	390	R	6,000,000	GALLONS
35	500	R/S	5,000,000	GALLONS
68	390	R/S	1,300,000	GALLONS
94	200	X	1,250,000	GALLONS
96	390	R	1,000,000	GALLONS
93	500	R	470,000	GALLONS
32	400	S	390,000	GALLONS
33	195	S	130,000	GALLONS
AVERAGE:	394		9,294,000	GALLONS
TOTAL	3,935		92,940,000	GALLONS
<u>MISCELLANEOUS</u>				
31	400	R	4,000,000	GALLONS
AVERAGE:	400		4,000,000	GALLONS
TOTAL	400		4,000,000	GALLONS
<u>ALL FACILITIES</u>				
AVERAGE:	404			
TOTAL:	4,845			

Date: 10/11/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE TO CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>AMMONIA</u>				
105M	1,080	S	45,000	TONS
53M	450	R	4,300	TONS
AVERAGE:	765		24,650	TONS
TOTAL	1,530		49,300	TONS
<u>CHEMICALS/PETROCHEMICALS</u>				
53M	450	R	1,750,000	GALLONS
114M	250	R	1,289,400	GALLONS
AVERAGE:	350		1,519,700	GALLONS
TOTAL	700		3,039,400	GALLONS
<u>FERTILIZER</u>				
90N	300	R	29,150	TONS
96M	275	R	28,900	TONS
57N	250	S	27,500	TONS
106M	290	R/S	11,000	TONS
100M	195	R	8,500	TONS
58N	180	R	5,000	TONS
73N	200	S	5,000	TONS
118M	358	S		TONS
AVERAGE:	256		16,436	TONS
TOTAL	2,048		115,050	TONS

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

Date: 10/11/88

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE TO CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>VEGETABLE/ANIMAL OILS</u>				
120M	240	S	4,500	TONS
51N	450	S	4,500	TONS
111M	540	S	3,800	TONS
AVERAGE:	410		4,267	TONS
TOTAL	1,230		12,800	TONS
<u>MISCELLANEOUS (UNSPECIFIED)</u>				
126M	700	R/S	45,500	TONS
4M	195	R/S	11,000	TONS
AVERAGE:	448		28,250	TONS
TOTAL	895		56,500	TONS
<u>ALL FACILITIES</u>				
AVERAGE:	377			
TOTAL:	6,403			



Date: 10/11/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO TO MISSOURI RIVER)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>ALCOHOL</u>				
132	195	R	12,000	GALLONS
AVERAGE:	195		12,000	GALLONS
TOTAL	195		12,000	GALLONS
<u>AMMONIA</u>				
20	360	R/S	31,000	TONS
150	450	R/S	30,000	TONS
AVERAGE:	405		30,500	TONS
TOTAL	810		61,000	TONS
<u>CHEMICALS/PETROCHEMICALS</u>				
119	195	R/S	6,000,000	GALLONS
132	195	R	5,952,000	GALLONS
23	195	R/S	4,970,000	GALLONS
102	140	R	2,800,000	GALLONS
147	170	S	1,632,200	GALLONS
88	875	R	630,000	GALLONS
35	435	R/S	600,000	GALLONS
AVERAGE:	315		3,226,314	GALLONS
TOTAL	2,205		22,584,200	GALLONS
<u>FERTILIZER</u>				
10	700	S	45,300	TONS
150	450	R/S	20,000	TONS
30	400	R	16,500	TONS
35	435	R/S	16,500	TONS
158	195	R	10,100	TONS
AVERAGE:	436		21,680	TONS
TOTAL	2,180		108,400	TONS

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO TO MISSOURI RIVER)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>MOLASSES</u>				
107	195	R	17,000	TONS
AVERAGE:	195		17,000	TONS
TOTAL	195		17,000	TONS
<u>VEGETABLE/ANIMAL OILS</u>				
35	435	R/S	48,500	TONS
AVERAGE:	435		48,500	TONS
TOTAL	435		48,500	TONS
<u>MISCELLANEOUS (UNSPECIFIED)</u>				
116	390	R/S	1,055,000	GALLONS
AVERAGE:	390		1,055,000	GALLONS
TOTAL	390		1,055,000	GALLONS
<u>ALL FACILITIES</u>				
AVERAGE:	356			
TOTAL:	6,410			

Date: 10/11/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>ALCOHOL</u>				
214	635	S	1,500,000	GALLONS
70	200	R/S	1,341,000	GALLONS
138	600	R	1,200,000	GALLONS
AVERAGE:	478		1,347,000	GALLONS
TOTAL	1,435		4,041,000	GALLONS
<u>AMMONIA</u>				
232	2,000	S	60,000	TONS
136	585	R	60,000	TONS
20	400	R/S	60,000	TONS
25	225	S	40,000	TONS
176	500	R	30,000	TONS
10	225	R/S	30,000	TONS
246	450	R/S	30,000	TONS
54	200	R/S	30,000	TONS
248	280	R	25,000	TONS
68	740	R/S	20,000	TONS
AVERAGE:	561		38,500	TONS
TOTAL	5,605		385,000	TONS
<u>CHEMICALS/PETROCHEMICALS</u>				
184	220	R	2,703,600	GALLONS
210	195	R	2,000,000	GALLONS
220	180	R	1,500,000	GALLONS
248	280	R	1,400,000	GALLONS
222	200	R	1,200,000	GALLONS
127	225	R	1,040,000	GALLONS
AVERAGE:	217		1,640,600	GALLONS
TOTAL	1,300		9,843,600	GALLONS

Date: 10/11/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<b>FERTILIZER</b>				
25	225	S	80,000	TONS
154	200	R	44,000	TONS
24	350	R/S	33,000	TONS
20	400	R/S	30,000	TONS
136	585	R	25,000	TONS
172	320	R	22,000	TONS
236	550	R	20,350	TONS
13	960	R	19,500	TONS
19	100	R	16,500	TONS
224	130	S	11,000	TONS
51	60	R	11,000	TONS
207	400	R	11,000	TONS
68	740	R/S	4,675	TONS
173	390	R	3,619	TONS
179	450	S	3,300	TONS
17	500	R	3,000	TONS
160	195	R	2,365	TONS
AVERAGE:	386		20,018	TONS
TOTAL	6,555		340,309	TONS
<b>MOLASSES</b>				
173	390	R	47,016	TONS
68	195	R	41,139	TONS
70	200	R/S	31,253	TONS
19	100	R	29,385	TONS
218	510	R	20,000	TONS
210	195	R	17,631	TONS
AVERAGE:	265		31,071	TONS
TOTAL	1,590		186,424	TONS

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>VEGETABLE/ANIMAL OILS</u>				
2	350	S	15,000	TONS
172	320	S	14,790	TONS
143	300	S	12,000	TONS
210	195	S	8,700	TONS
70	200	R/S	5,833	TONS
60	750	S	3,100	TONS
66	1,000	S	1,400	TONS
AVERAGE:	445		8,689	TONS
TOTAL	3,115		60,823	TONS

ALL FACILITIES

AVERAGE: 400

TOTAL: 19,600

Date: 10/11/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: MISSOURI RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>AMMONIA</u>				
100	475	R	50,000	TONS
AVERAGE:	475		50,000	TONS
TOTAL	475		50,000	TONS
<u>CHEMICALS/PETROCHEMICALS</u>				
42	600	R	6,132,500	GALLONS
84	300	R	3,000,000	GALLONS
AVERAGE:	450		4,566,250	GALLONS
TOTAL	900		9,132,500	GALLONS
<u>FERTILIZER</u>				
60	275	R	73,000	TONS
91	175	R	52,060	TONS
79	130	R	31,200	TONS
81	550	S	27,500	TONS
87	300	R	27,300	TONS
100	475	R	21,000	TONS
19	300	R/S	16,500	TONS
36	195	R	14,850	TONS
70	210	R	13,900	TONS
8	400	R	12,350	TONS
25	855	R	11,000	TONS
106	900	R	11,000	TONS
69	195	R	9,600	TONS
28	600	R	5,500	TONS
42	600	R	2,850	TONS
AVERAGE:	411		21,974	TONS
TOTAL	6,160		329,610	TONS

Date: 10/11/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: MISSOURI RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>MOLASSES</u>				
106	900	R	25,000	TONS
83	260	R	25,000	TONS
57	400	R	19,000	TONS
19	300	R/S	8,800	TONS
AVERAGE:	465		19,450	TONS
TOTAL	1,860		77,800	TONS
<u>VEGETABLE/ANIMAL OILS</u>				
103	1,136	S	21,750	TONS
66	697	S	11,750	TONS
107	250	R/S	6,200	TONS
79	130	S	2,900	TONS
104	150	S	2,200	TONS
AVERAGE:	473		8,960	TONS
TOTAL	2,363		44,800	TONS
<u>ALL FACILITIES</u>				
AVERAGE:	435			
TOTAL:	11,758			

Date: 9/30/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: MONOGAHELA RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>AMMONIA</u>				
81	700	S	20,000	TONS
175	390	R	20,000	TONS
103	295	R	1,300	TONS
AVERAGE:	462		13,767	TONS
TOTAL	1,385		41,300	TONS
<u>CHEMICALS/PETROCHEMICALS</u>				
86	175	R/S	7,000,000	GALLONS
78	1,200	R/S	3,700,000	GALLONS
175	390	S	540,000	GALLONS
185	150	R	450,000	GALLONS
203	150	R	120,000	GALLONS
AVERAGE:	413		2,362,000	GALLONS
TOTAL	2,065		11,810,000	GALLONS
<u>ALL FACILITIES</u>				
AVERAGE:	431			
TOTAL:	3,450			



Date: 10/14/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>ALCOHOL</u>				
100L	195	R	642,600	GALLONS
AVERAGE:	195		642,600	GALLONS
TOTAL	195		642,600	GALLONS
<u>AMMONIA</u>				
60L	800	R	45,000	TONS
152C	200	R	20,000	TONS
221L	150	R	15,000	TONS
AVERAGE:	383		26,667	TONS
TOTAL	1,150		80,000	TONS

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>CHEMICALS/PETROCHEMICALS</u>				
137H	150	R	14,070,000	GALLONS
89C	450	R/S	12,409,091	GALLONS
128C	160	R	9,996,000	GALLONS
9P	160	R	9,100,000	GALLONS
49P	134	R	8,786,610	GALLONS
55P	540	R/S	8,400,000	GALLONS
55P	540	R/S	8,400,000	GALLONS
46P	290	R/S	7,500,000	GALLONS
271P	270	S	7,140,000	GALLONS
232H	100	R	6,426,000	GALLONS
272P	300	R	6,300,000	GALLONS
147C	195	R	5,800,200	GALLONS
274P	440	R	4,620,000	GALLONS
131C	175	R	3,150,000	GALLONS
118H	240	R	3,150,000	GALLONS
183H	120	R	3,150,000	GALLONS
179H	160	R	2,940,000	GALLONS
139C	500	R	2,310,000	GALLONS
73C	210	R/S	2,289,000	GALLONS
124L	180	R	2,268,000	GALLONS
19P	140	S	2,221,800	GALLONS
145H	100	R/S	2,100,000	GALLONS
8C	195	R	1,999,200	GALLONS
21P	87	R	1,680,000	GALLONS
86C	175	R	1,575,000	GALLONS
18H	380	R	1,500,000	GALLONS
78C	110	R/S	1,260,000	GALLONS
46C	110	R/S	1,131,000	GALLONS
170H	1,040	R	1,020,600	GALLONS
136H	140	R	999,600	GALLONS
127C	175	R	978,600	GALLONS
141C	100	R	945,000	GALLONS
90L	195	R	600,600	GALLONS
128H	125	R	499,800	GALLONS
140H	40	R	499,800	GALLONS
157C	120	S	480,000	GALLONS
12P	440	S	400,000	GALLONS
50P	129	R/S	252,000	GALLONS
14P	525	R	240,000	GALLONS
132L	600	S		
139H	60	S		
AVERAGE:	251		3,809,946	
TOTAL	10,300		148,587,901	

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

Date: 10/14/88

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<b>FERTILIZER</b>				
221L	150	R	38,000	TONS
181H	150	R	33,033	TONS
136C	800	R	30,250	TONS
114C	175	R	27,489	TONS
147L	175	R	25,410	TONS
60L	800	R	18,000	TONS
152L	200	S	16,500	TONS
88L	195	R	13,190	TONS
138C	120	R	12,705	TONS
153L	300	R	8,246	TONS
207L	300	R	4,998	TONS
124L	180	R	4,620	TONS
AVERAGE:	295		19,370	TONS
TOTAL	3,545		232,441	TONS
<b>MOLASSES</b>				
182H	400	R	7,014,000	GALLONS
107L	150	R	966,000	GALLONS
127C	175	R	873,563	GALLONS
AVERAGE:	242		2,951,188	GALLONS
TOTAL	725		8,853,563	GALLONS
<b>SULPHUR</b>				
46C	110	R	1,300	TONS
AVERAGE:	110		1,300	TONS
TOTAL	110		1,300	TONS
<b>VEGETABLE/ANIMAL OILS</b>				
137C	120	R		
AVERAGE:	120			
TOTAL	120			

Date: 10/14/88

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>MISCELLANEOUS</u>				
141P	170	R	60,060,000	GALLONS
113C	220	R	20,580,000	GALLONS
129L	375	R	16,800,000	GALLONS
138C	120	R	13,440,000	GALLONS
132H	200	S	5,000,000	GALLONS
222L	300	R/S	4,498,200	GALLONS
122L	390	R	3,599,400	GALLONS
126L	200	R	1,999,200	GALLONS
241L	737	R	1,919,400	GALLONS
130L	175	R	1,654,800	GALLONS
127L	150	R	730,800	GALLONS
168L	360	R	630,000	GALLONS
90L	195	R	600,600	GALLONS
124L	180	R	504,000	GALLONS
128L	735	R	373,800	GALLONS
AVERAGE:	300		8,826,013	GALLONS
TOTAL	4,507		132,390,200	GALLONS

ALL FACILITIES

AVERAGE: 268

TOTAL: 20,652

## SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

Date: 9/28/88

WATERWAY: OUACHITA RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>AMMONIA</u>				
14	400	S	75,000	TONS
AVERAGE:	400		75,000	TONS
TOTAL	400		75,000	TONS
<u>CHEMICALS/PETROCHEMICALS</u>				
16	450	S	420,000	GALLONS
AVERAGE:	450		420,000	GALLONS
TOTAL	450		420,000	GALLONS
<u>VEGETABLE/ANIMAL OILS</u>				
13	300	X	2,000	TONS
AVERAGE:	300		2,000	TONS
TOTAL	300		2,000	TONS
<u>ALL FACILITIES</u>				
AVERAGE:	383			
TOTAL:	1,150			

Date: 10/14/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: TENNESSEE RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<u>VEGETABLE/ANIMAL OILS</u>				
99	575	S	14,500	TONS
159	1,100	R	11,100	TONS
AVERAGE:	838			
TOTAL	1,675			
<u>MISCELLANEOUS</u>				
95	1,800	R	999,600	GALLONS
87	530	S	940,000	GALLONS
AVERAGE:	1,165			
TOTAL	2,330			
<u>ALL FACILITIES</u>				
AVERAGE:	494			
TOTAL:	10,861			

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

Date: 9/28/88

WATERWAY: WHITE RIVER

REF. NO.	BERTHING LENGTH (FT)	RECEIPT AND/OR SHIPMENT	TANKAGE	UNITS
<b>FERTILIZER</b>				
7	200	R	6,000	TONS
4	130	R	4,500	TONS
AVERAGE:	165		5,250	TONS
TOTAL	330		10,500	TONS

#### OTHER COMMODITIES:

Listed below are a number of commodity items not included in this report.

1. Forest products (lumber, logs, pulpwood, wood pulp, hog fuel, paper products).
2. General cargo (conventional and containerized).
3. Unitized cargo (steel, precast concrete, fabrications, plant equipment and machinery).
4. Building materials (brick, block, glass).
5. Seafood.
6. Refuse.

These commodity items, with the possible exception of forest products, altogether account for minimal inland waterway cargo tonnage. These items will be included in a future report.



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19	Panama City and Pensacola, FL; Pascagoula and Gulfport, MS; and Ports on the Apalachicola, Chattahoochee, and Flint Rivers.....	1986
33	Coos Bay, OR and Ports on Columbia-Snake River System (Astoria, The Dalles, Boardman, and Umatilla, OR; Longview, Kalama, Vancouver, Pasco/Kennewick, Wilma, and Clarkston, WA; and Lewiston, ID).....	1986
46	Chicago, IL.....	1985
60	Pittsburgh, PA, and Ports on the Ohio, Monongahela, and Allegheny Rivers, PA.....	1982
61	Huntington, WV, Ports on Ohio River Miles 40-317, and Kanawha River, WV.....	1983
62	Cincinnati, OH, and Ports on Ohio River Miles 317-560.....	1983
63	Louisville, KY, Ports on Ohio River Miles 560-980, and Cumberland and Green Rivers.....	1984
64	Ports on Tennessee River, Tennessee-Tombigbee and Black Warrior-Tombigbee Waterways, and Alabama River.....	1986
65	Illinois Waterway, IL.....	1984
68	Ports on the Missouri, Arkansas, Verdigris, White, and Ouachita Rivers.....	1987
69	Minneapolis-St. Paul, MN, and Ports on Upper Mississippi River Miles 300-860 AOR.....	1985
70	St. Louis, MO, and Ports on Upper Mississippi River Miles 0-300 AOR.....	1982
71	Memphis, TN; Helena, AR; and Ports on Lower Mississippi River Miles 620-954 AHP.....	1983
72	Natchez, Vicksburg, and Greenville, MS, and Ports on Lower Mississippi River Miles 255-620 AHP.....	1982

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-8